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Examining the Relationship between Meaningful Work and Job Engagement

Anlamlı İş ve İşle Bütünleşme İlişkisinin İncelenmesi

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ABSTRACT: Ensuring teachers' job engagement is critical in achieving educational goals. This study examined the relationship between meaningful work and job engagement using the data collected from 452 teachers in Turkey. The data collected by using Meaningful Work Scale and Job Engagement Scale Turkish Form were analyzed by descriptive statistics, confirmatory factor analysis, multivariate regression analysis, and moderation analyses. We found a positive, moderate, and significant relationship between meaningful work and job engagement. We tested the predictive effects of meaningful work and demographic variables (gender, seniority, and educational status). Meaningful work explained 47% of the variance in teachers' job engagement in the first model. All subdimensions of meaningful work except for the search for meaning at work and work relations were found to be significant predictors of job engagement. With the inclusion of demographic variables, the second model again explained 47% of the variance in teachers' job engagement. Furthermore, we found that seniority was a significant and positive predictor of job engagement. Moderation analyses indicated gender and educational status did not have a moderator role in the relationship between meaningful work and job engagement. We found that seniority had a moderator effect on the relationship between work relationships and job engagement. This study contributes to meaningful work and job engagement literature in the context of teachers.

Keywords: Meaningful work, job engagement, positive psychology, teacher, motivation.

ÖZ: Eğitimsel amaçların başarılmasında öğretmenlerin işle bütünleşmelerinin sağlanması kritiktir. Bu çalışmada Türkiye'deki 452 öğretmenden toplanan verileri kullanarak anlamlı iş ve işle bütünleşme arasındaki ilişki incelenmiştir. Anlamlı İş Ölçeği ve İşle Bütünleşme Ölçeği Türkçe Formu kullanılarak toplanan veriler, betimsel istatistikler, doğrulayıcı faktör analizi, çok değişkenli regresyon analizi ve moderasyon analizleri ile çözümlenmiştir. Anlamlı iş ile işle bütünleşme arasında pozitif yönlü, orta düzeyde ve anlamlı bir ilişki tespit ettik. Anlamlı işin ve demografik değişkenlerin (cinsiyet, kıdem ve eğitim durumu) yordayıcı etkisini test ettik. Birinci modelde anlamlı iş, öğretmenlerin işle bütünleşmelerindeki varyansın %47'sini açıklamıştır. Anlamlı işin, işte anlam arayışı ve iş ilişkileri dışındaki tüm alt boyutları, işle bütünleşmenin anlamlı yordayıcıları olarak bulunmuştur. Demografik değişkenlerin dahil edilmesi ile ikinci model, öğretmenlerin işle bütünleşmelerindeki varyansın tekrar %47'sini açıklamıştır. Ayrıca kıdemin, işle bütünleşmenin anlamlı ve pozitif bir yordayıcısı olduğunu tespit ettik. Moderasyon analizleri, cinsiyet ve eğitim durumunun anlamlı iş ile işle bütünleşme arasındaki ilişkide düzenleyici role sahip olmadığını göstermiştir. İş ilişkileri ile işle bütünleşme arasındaki ilişkide kıdem değişkeninin düzenleyici etkiye sahip olduğunu belirledik. Bu çalışma, öğretmenler bağlamında anlamlı iş ve işle bütünleşme literatürüne katkı sunmaktadır.

Anahtar kelimeler: Anlamlı iş, işle bütünleşme, pozitif psikoloji, öğretmen, motivasyon.

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Teachers are principal actors in unlocking and improving the potential of each student in schools. In this context, teachers have vital responsibilities in achieving educational goals and raising future generations (OECD, 2005). In meeting social expectations regarding education, teachers are expected to keep their motivation alive and dedicate themselves to their work (İlğan & Ceviz, 2019; Somech & Ron, 2007). When teachers develop positive attitudes towards their profession, they can transfer all their energies to their work (Granziera & Perera, 2019). In this context, job engagement, which requires transferring physical, mental, and emotional energy to the work roles (Kahn, 1990), comes to the fore for teachers.

Job engagement leads to several psychological and organizational outcomes for teachers (Bakker et al., 2007; Salanova et al., 2006). Teachers with a high level of job engagement experience positive psychological consequences for their inner world (Bakker & Bal, 2010; Hakanen et al., 2006). Job engagement affects teachers' job satisfaction (Granziera & Perera, 2019; Klassen et al., 2012; Salanova et al., 2011; Viseu et al., 2015) and well-being positively (Kang & Yoo, 2019; Klassen et al., 2012; Rusu & Colomeischi, 2020). Job engagement matters in making teachers feel happy, energetic, enthusiastic, and motivated about their work (Bakker & Bal, 2010; Burić & Macuka, 2018; Klassen et al., 2012). Moreover, job engagement reduces negative situations such as weariness, burnout, and related health problems in teachers (Hakanen et al., 2006; Hoigaard et al., 2012; Klassen et al., 2012).

Job engagement improves teachers' job performance from an organizational perspective (Bakker & Bal, 2010; Hakanen et al., 2006; Öncel, 2007). Job engagement plays a role in increasing teachers' organizational commitment (Hakanen et al., 2006; Han et al., 2016), reducing their burnout (Hakanen et al., 2006), and intention to leave (Hoigaard et al., 2012; Öncel, 2007). Teachers engaged in their profession are more likely to achieve educational goals than their peers who experience burnout (Guglielmi & Tatrow, 1998; Rudow, 1999). Job engagement is critical for teachers' potential to influence student achievement (Sethi & Scales, 2020; Valenta, 2010). Teachers who experience job engagement get positive results in improving student achievement (Gordon, 2006; Roth et al., 2007) and are effective in activating curiosity, excitement, energy, and interest among students (Bakker, 2005; Patrick et al., 2000). Thus, teachers' job engagement levels contribute to school effectiveness (Klassen et al., 2012; Koçak & Nartgün, 2020; Parker & Martin, 2009).

Individual and organizational variables contribute to teachers' job engagement (Klusmann et al., 2008). Teacher self-efficacy (Burić & Macuka, 2018; Kavgacı, 2014; Salanova et al., 2006; Simbula et al., 2011; Skaalvik & Skaalvik, 2014), teacher autonomy (Kavgacı, 2014; Victor & Patil, 2016), teacher leadership (İnanır, 2020), and positive psychological capital (Coleman, 2016; Eser, 2018; Price, 2017; Tösten et al., 2019) are among the individual factors that lead to job engagement. The organizational factors that affect teachers' job engagement are school culture (Khan, 2016; Louis & Smith, 1991), school climate (Bakker et al., 2007; Hakanen et al., 2006; İnanır, 2020; Song et al., 2014), organizational justice (Akdeniz & Ottekin Demirbolat, 2019; Köse & Uzun, 2018; Viseu et al., 2015), organizational citizenship (Runhaar et al., 2013), school principal support (Bakker & Demerouti, 2007; Klusmann et al., 2008), and the leadership displayed in the school (Bird et al., 2012; Breevaart & Bakker, 2018; Leonetti, 2019). Furthermore, job resources such as administrative support, social

environment at school, information sharing, innovative atmosphere, and job control increase teachers' job engagement (Hakanen et al., 2006). One of the possible factors that lead to teachers' job engagement can be considered *meaningful work*.

Perceiving one's work as meaningful leads to several potentially positive outcomes, both individually and organizationally (Chaolertseree & Taephant, 2020; Hu & Hirsh, 2017). The implications of meaningful work experience also apply to teachers (Lavy & Bocker, 2018; Steger & Dik, 2010). In terms of individual outcomes, meaningful work affects teachers' motivation, job satisfaction, and well-being (Fouché et al., 2017; Lavy & Bocker, 2018). Meaningful work is essential for making teachers happier, more productive, and more responsible (Fourie & Deacon, 2015). According to Kun and Gadanecz (2019), the factors that make teachers happy in schools are social relationships, finding meaning in work, achieving goals, and receiving feedback. Meaningful work supports teachers' self-perceived health and improves their well-being by enabling them to cope better with stressful working conditions (Minkkinen et al., 2020). In organizations that create a meaningful work environment, productivity, creativity, and sense of achievement increase, while stress and absenteeism decrease (Chalofsky, 2010; Lips-Wiersma & Morris, 2018). Meaningful work helps teachers display organizational citizenship behavior (Selamat et al., 2017) and cope with the stress created by a demanding work environment in schools (Månsson & Persson, 2005).

As understood from the literature review, there are various studies on the causes and consequences of teachers' job engagement. While stress, burnout, and intention to leave the job decrease in teachers who feel job engagement, positive psychological feelings such as excitement, happiness, intrinsic motivation, and job satisfaction increase (Bakker & Bal, 2010; Hakanen et al., 2006; Hoigaard et al., 2012). Job engagement is critical in enhancing teachers' work performance and maintaining school effectiveness (Bakker & Bal, 2010; Klassen et al., 2012). Additionally, meaningful work has significant implications for teachers and schools (Fouché et al., 2017; Kun & Gadanecz, 2019; Lavy & Bocker, 2018).

Several studies in the literature focus on the link between job engagement and school culture (Khan, 2016; Louis & Smith, 1991), school climate (Bakker et al., 2007; Hakanen et al., 2006; İnanır, 2020; Song et al., 2014), organizational commitment (Özkeskin, 2019), emotional labor (Çarıkcı, 2020), managerial support, transformational leadership (Hakanen et al., 2006; Hoigaard et al., 2012), job satisfaction (Blatný et al., 2018; Granziera & Perera, 2019; Klassen et al., 2012; Salanova et al., 2011; Viseu et al., 2015), personality traits (Blatný et al., 2018), intention to leave (Hoigaard et al., 2012; Öncel, 2007) in educational organizations. On the other hand, some studies examined teachers' level of meaningful work (Akar, 2020; Toptas, 2018) and how they make sense of the work (Demirkasımoğlu, 2015; Fourie & Deacon, 2015; Koşar, 2019; Willey, 2016). Moreover, studies were conducted on the association between meaningful work and teacher motivation (Fourie & Deacon, 2015), intention to leave (Janik & Rothmann, 2015), work behaviors (Willemse & Deacon, 2015), job satisfaction, and well-being (Fouché et al., 2017; Lavy & Bocker, 2018; Minkkinen et al., 2020). Akar (2020) and Toptas (2018) found that teachers find their work highly meaningful. In another study by Kavgacı (2014), teachers' job engagement levels were found high. However, studies focusing on the links between meaningful work and job

engagement in educational organizations are limited in literature (Fouché et al., 2017; Van Wingerden & Poell, 2019). The present study is expected to contribute to practice and theory in this context.

Conceptual Framework

Job Engagement

The concept of engagement emerged in business and was first included in Gallup studies in the 1990s (Schaufeli, 2012). The necessity of fostering employee engagement for organizational effectiveness was stressed in related studies (Ferguson & Carstairs, 2005). "Employee engagement," which has a broader scope, is mainly preferred in business, while "job engagement" is more common in academia (Rich et al., 2010; Schaufeli & Salanova, 2011). Kahn first conceptualized engagement at work and defined personal engagement as "the harnessing of organization members' selves to their work roles" (1990, p. 694). Based on this definition, Rich et al. (2010, p. 619) defined job engagement as "a multidimensional motivational concept reflecting the simultaneous investment of an individual's physical, cognitive, and emotional energy in active, full work performance."

Kahn (1990) defined engagement as individuals adjusting their selves according to the requirements of their roles. Job engagement is the individual's experience of a psychological existence at work. Schaufeli and Bakker (2010) emphasize that employees who are engaged in a job put a lot of effort into their work as they identify with the job. Kahn (1990) laid the theoretical foundations of job engagement based on Goffman's (1972) study on role performance. According to Goffman (1972), where there is action, there is interaction, and people can only participate in an interaction if they have a role to play. Within the scope of the job, people adopt the role expected from them in the organization, or they detach themselves from the role performances (Goffman, 1972). In this context, Kahn (1990) based his definition of engagement on Goffman's (1972) idea of role distance, which states there are differences in an individual's levels of attachments and detachments in role performances. When individuals achieve engagement, they cognitively, emotionally, and physically involve themselves in the work role performance. Thus, individuals fully engaged in their roles display their true selves. Conversely, individuals separate themselves from their work roles when they fail to engage in the job (Kahn, 1990).

Job engagement means "a positive, fulfilling, work-related state of mind characterized by vigor, dedication, and absorption" (Schaufeli et al., 2002, p. 74). *Vigor* is defined by a high energy level, work resilience, perseverance when faced with challenges, and a willingness to put effort into one's work. *Dedication* means a sense of inspiration, pride, importance, passion, and coping with challenges at work. *Absorption* refers to being happy, concentrating fully, and immersing oneself in one's work by having difficulty disconnecting from work (Schaufeli et al., 2006; Schaufeli et al., 2002).

Kahn (1990) reports that participation in one's role depends on three psychological conditions: meaningfulness, safety, and availability. Individuals' perception of being rewarded for their labor in their role performances at work is defined as *psychological meaningfulness* (Kahn, 1990). The value individuals attach to

the purpose of work according to their ideals or standards constitutes the state of psychological meaningfulness (Hackman & Oldham, 1980; May et al., 2004). *Psychological safety* is defined as the individual's sense of dedication and self-disclosure without fear of negative effects on one's self-esteem, position, or career (Kahn, 1990, p. 708). Individuals can reveal their true selves when they feel an atmosphere of trust at work (May et al., 2004). *Psychological availability*, on the other hand, is expressed as the feeling of having the physical, emotional, and psychological resources required for individuals to devote themselves to role performance (Kahn, 1990).

Physical, emotional, and cognitive engagement are the three components of job engagement (Kahn, 1990; Rich et al., 2010). *Physical engagement* refers to the physical energy people spend to accomplish their duties. The individuals' determination and hard work while doing their jobs is possible with physical engagement (Kahn, 1990; Rich, 2006). In this context, Kahn's (1990) physical engagement dimension is consistent with Schaufeli et al.'s (2002) vigor dimension. *Emotional engagement* is related to how employees feel about the organization, its leaders, working circumstances, and their favorable or negative emotions about the organization and its leaders (Kahn, 1990). Emotional engagement shows parallelism with Schaufeli et al.'s (2002) dedication dimension. *Cognitive engagement*, on the other hand, is the state of focusing on one's work and giving full attention to it (Kahn, 1990). This dimension is also associated with the absorption dimension in Schaufeli et al.'s (2002) job engagement model (Schaufeli & Bakker, 2010).

Meaningful Work

Individuals seek to find meaning in their working life (Frankl, 1992). Meaningfulness, which expresses an inclusive state of existence, contributes significantly to individuals' sense of reaching their life goals. In this context, meaningfulness is essential for individuals' mental health, organizational health, and high performance (Chalofsky, 2003). It is striking that there is no complete agreement among scholars on the definition of meaningful work (Michaelson, 2021). Meaningful work means the work done has specific importance and positive meaning for individuals (Lysova et al., 2019; Rosso et al., 2010). Individuals find work meaningful when their expectations, values, beliefs, and behaviors are coordinated with the features and responsibilities of the job (Pratt & Ashforth, 2003). Scroggins (2008) defines meaningful work as work that allows people to adapt to their surroundings, experience success, and realize themselves. Work-life balance (May et al., 2004), meeting internal needs, and achieving goals all contribute to the sense of meaningful work (Ashmos & Duchon, 2000; Miller, 2008).

Meaningful work is about more than simply the significance of one's paid work; it is also about how one lives life. The harmonization of values, relationships, purpose, and activities pursued in life creates meaningful work (Chalofsky, 2003, p. 58). Individuals who have a sense of meaningful work are happier, more productive, and more responsible. Moreover, while productivity, creativity, and sense of achievement increase in organizations creating meaningful work, employee stress and absenteeism decrease (Chalofsky, 2010; Lips-Wiersma & Morris, 2018). Employees' feeling of

meaningful work is critical to ensuring organizational effectiveness (Christian et al., 2011).

In Hackman and Oldham's (1976) job characteristics model, experiencing meaningfulness at work is considered one of the critical psychological states. According to this model, meaningfulness at work is a key determinant in developing positive outcomes, such as job satisfaction, high-quality work performance, high internal work motivation, low absenteeism, and turnover. Since the 1990s, meaningful work has been at the forefront of organizational behavior, particularly in terms of human resource development (Bailey et al., 2019).

Chalofsky (2003, 2010) introduced the integrated wholeness meaningful work model, consisting of three components: sense of self, the work itself, and sense of balance. Miller (2008) added "sense of contribution" to this model. The sense of self is related to individuals' ability to devote themselves to their work with their whole being (mind, body, emotion, spirit), to harmonize their goals in life with their work, and to be aware of their potential. The work itself is associated with individuals' ability to master their performance, demonstrate creativity at work, experience continuous improvement and learning, and realize their purpose through work. It also includes a sense of autonomy, empowerment, and control over one's environment at work. The sense of balance is related to the ability of individuals to establish a balance between work and life in general (Chalofsky, 2003, 2010; Miller, 2008). The sense of contribution refers to the ability of individuals to use their skills, strengths, and abilities to serve others, make a difference, strive to make the world a better place, to feel part of something bigger. This model is based on Maslow's theory of motivation. The individual's effort to be an integrated whole and thus providing intrinsic motivation is a fundamental building block of the self-actualization process (Miller, 2008).

According to Göçen and Terzi (2019), meaningful work consists of six subdimensions (meaning at work, search for meaning at work, work relationships, transcendence at work, humility at work, and meaning leadership at work). Meaning at work is explained by the fact that the work done serves higher purposes for the individual, provides spiritual pleasure, and contributes to the individual's selfknowledge and personal development. The search for meaning at work refers to individuals' questioning the purpose of working life and their search for meaning at work. The work relationships express the positive communication climate, unity, trust, support, and solidarity that individuals establish with their colleagues in the workplace. Transcendence at work is defined as the love of work, inner peace, and spiritual pleasure of individuals in working life. The harmony between individual and organizational goals promotes a sense of transcendence at work. Humility at work means that individuals do not expect personal benefits, compliments, and rewards in the face of what they do by acting with the motivation of serving society. Meaning leadership at work is defined as the leader's power of influence and helping colleagues discover and realize their life goals and build meaning at work.

The Relation between Meaningful Work and Job Engagement

In recent decades, especially with the rise of positive psychology, meaningful work and job engagement issues have increased (Albrecht, 2013; Fairlie, 2011; Hoole & Bonnema, 2015). Meaningful work is closely related to positive psychology and job

engagement (Albrecht, 2013). Seligman (2002), the pioneer of positive psychology, defines "meaningful life" as the state of the highest happiness. According to Seligman, the source of a meaningful life is expressed as the search and experience of doing things people believe and value. Meaning in the workplace is a crucial aspect of a meaningful life (Cohen-Meitar et al., 2009). Meaningful work is a necessary prerequisite for experiencing job engagement (Kahn, 1990). Many studies conducted on organizations other than educational organizations emphasized that meaningful work leads to job engagement (Albrecht, 2013; Fairlie, 2011; May et al., 2004; Van Wingerden & Van der Stoep, 2018). Studies conducted on educational organizations (Fouché et al., 2017; Van Wingerden & Poell, 2019) indicated a positive and significant relationship between meaningful work and job engagement. Moreover, relevant studies suggest that meaningful work leads to job engagement.

Purpose of the Study

The purpose of the current study was to examine the relationship between meaningful work and job engagement based on teacher opinions. Accordingly, answers to the following research questions were sought:

- 1. Is there a relationship between meaningful work and job engagement according to teachers' opinions?
- 2. Do gender, educational status, and seniority play a moderator role in the relationship between meaningful work and job engagement?

Method

Participants

The research population comprises 2374 teachers working in preschool, primary, secondary, and high school institutions in Kırıkkale province in the 2020-2021 academic years. Using a sample size table, we concluded that including at least 322-333 teachers was sufficient to ensure representativeness (Cohen et al., 2007, p. 104). We adopted stratified sampling method. Each school level (preschool, primary school, secondary school, high school) was considered a stratum to ensure the sample could best represent the population. In this context, we determined that 21 teachers from kindergarten, 81 teachers from primary school, 110 teachers from secondary school, and 119 teachers from high school could represent the population.

Data Collection Tools

Meaningful Work Scale (MWS)

We used MWS developed by Göçen and Terzi (2019) to examine the meaningful work level of teachers. The MWS consists of 21 items and six subscales. The subscales include meaning at work (5 items), search for meaning at work (3 items), work relationships (4 items), transcendence at work (3 items), humility at work (3 items), and meaning leadership at work (3 items). The MWS is a 5-point Likert-type scale ranging from "absolutely disagree" to "absolutely agree." (Sample Items: "My work serves a great purpose" and "I feel my colleagues value me"). Factor loading values of the items for sub-dimensions of the scale are as follows: meaning at work (between .61 and .80), search for meaning at work (between .80 and .87), work

relations (between .71 and .82), transcendence at work (between .66 and .82), humility at work (between .75 and .78), and meaning leadership at work (between .61 and .84). Cronbach Alpha (α) reliability value of the MWS was .84 (Göçen & Terzi, 2019, p.1500). We re-examined the validity and reliability analyses of the MWS in this study. Confirmatory factor analysis (CFA) was applied in the Lisrel 8.80 program to test the validity and the six-dimensional structure was examined. The results of CFA [χ 2=384.93; df=183; χ 2/df=2.10; AGFI=.91; GFI=.92; NFI=.95; CFI=.97; RMSEA=.05] showed that the scale had construct validity. Within the scope of this research, we calculated the Cronbach Alpha value (α) of the MWS as .83. Cronbach Alpha values for sub-scales were found as .71 for meaning at work, .85 for search for meaning at work, .89 for work relationships, .71 for transcendence at work, .64 for humility at work, .81 for meaning leadership at work.

Job Engagement Scale (JES)

To examine the level of teachers' job engagement, we used the JES developed by Rich (2006) and adapted into Turkish as JES-TR by Öngöre (2013). Based on Kahn's (1990) study on engagement, the JES-TR consists of 18 items and three subscales (physical engagement, emotional engagement, and cognitive engagement). Each subscale has six items. The JES-TR is a 5-point Likert-type scale ranging from "strongly disagree" to "strongly agree." (Sample Items: "I exert a lot of energy on my job." and "I feel positive about my job."). The item load values of the JES-TR ranged from .52 to .70 in the physical engagement factor, between .62 and .73 in the emotional engagement factor, and between .70 and .79 in the cognitive engagement factor. Cronbach Alpha reliability value of the JES-TR was .95 (Öngöre, 2013). Within the current study, we retested the validity and reliability of the JES-TR. For the scale validity, CFA was performed in the Lisrel 8.80 program. JES-TR was found to have construct validity based on the results obtained with the five modifications made in the CFA process [$\chi 2=371.51$; df=127; $\chi 2/df=2.92$; AGFI=.89; GFI=.92; NFI=.98; CFI=.99; RMSEA=.06]. In this study, we calculated the Cronbach's Alpha value of the scale (α) as .95.

Procedures and Data Analysis

Research data were collected online from volunteer participants via Google forms. Due to Covid-19 pandemic circumstances throughout the study dates, we preferred the online data collection method. It took an average of ten minutes to complete the scales for participants. During the data collection, we distributed 500 scale forms to the participants to prevent potential data loss and reached 459 teachers.

After data collection, we transferred the data set to the SPSS 23 program and R Studio. As a result of the extreme value analysis, 452 (98%) scale forms were found suitable for the analysis. We examined correlation coefficients, variance inflation factors (VIF), and tolerance values to test whether there was a multicollinearity problem. We found that the correlation values between the independent variables were below .80. If the VIF value is less than ten and the tolerance values are equal to or greater than .10, it indicates no multicollinearity problem (Cohen et al., 2003, p. 423). In this study, we found the VIF value of the variables was between 1.01 and 1.67, and the tolerance values were between .598 and .983 acceptance range.

The correlation range of 0 to .30 was regarded as "low," the range of .31 to .70 as "moderate," and the range of .71 to 1.0 as "high" (Büyüköztürk, 2020, p. 32). We employed arithmetic mean, standard deviation, frequency, Pearson correlation coefficient, and regression analysis to analyze the data. Additionally, we ran moderation analyses to examine whether the variables of gender, educational status, and seniority played a moderator role between meaningful work and job engagement.

Ethical Procedures

Before the data collection, we obtained permission from the owners of the data collection tools via e-mail. We also got approval from the Social and Humanities Studies Ethics Committee of Kırıkkale University (July 18, 2020, session number: 07, decision no: 09) and legal permission from the Kırıkkale Provincial Directorate of National Education to apply the scales in relevant public schools. We informed participants that their personal information was kept confidential. Participation in the study was carried out voluntarily with a consent form.

Findings

Table 1

Descriptive Statistics for Variables

Variable	Mean	SD	Min.	Max.	Skew	Kurtosis
MWS	4.14	.44	2.14	5	51	.33
Meaning at Work	4.57	.45	2.80	5	-1.27	1.60
Search for Meaning	2.88	1.22	1	5	.08	-1.01
Work Relationships	4.13	.85	1	5	92	.41
Transcendence	4.40	.64	1.33	5	-1.18	1.55
Humility at Work	4.42	.65	1.67	5	-1.29	1.64
Meaning Leadership	4.19	.77	1	5	98	.87
JES-TR	4.57	.46	2.50	5	-1.31	1.43

Note. N=452. Gender: 1=Female (56%) and 2=Male (44%). Seniority: 1=1–5 years (8%), 2=6–10 years (19%), 3=11–15 years (19%), 4=16–20 years (17%), and 5=21 years and above (38%). Educational Status: 1=Associate Degree (4%), 2=Bachelor's Degree (76%), and 3=Postgraduate Degree (20%).

We observed that the majority of the participants were women (56%), had seniority of 11 years and above (74%), and had bachelor's degrees (76%). Skewness and kurtosis values were within |2| the acceptable range, which did not pose a threat to further analyses (See Table 1). We found that teachers had high levels of meaningful work (\overline{X} =4.14, Sd=.44) and job engagement (\overline{X} =4.57, Sd=.46). The results of the correlation analysis regarding the MWS and the JES-TR are presented in Table 2.

Table 2

Correlation Analysis Results

Variable	1.	2.	3.	4.	5.	6.	7.	8.
1. MWS	1							
2. Meaning at Work	.67**	1						
3. Search for Meaning	.43**	03	1					
4. Work Relationships	.71**	.43**	.04	1				
5. Transcendence	.66**	.56**	.04	.40**	1			
6. Humility at Work	.43**	.24**	00	.10*	.22**	1		
7. Meaning Leadership	.73**	.46**	.01	.47**	.44**	.34**	1	
8. JES-TR	.58**	.61**	00	.37**	.56**	.32**	.46**	1

N=452; ***p*<.01; **p*<.05

The results of correlation analysis indicated a positive, moderate, and significant relationship between meaningful work and job engagement (r=.58, p<.01). Except for the search for meaning at work dimension, positive and significant relationships were found in the meaningful work sub-dimensions and job engagement. The results of multiple regression analysis are presented in Table 3.

Table 3

Multiple Regression Results

	Me	odel 1: N	МW		Model 2: MW + Demographics					
Variable	Est. t β η^2 Est. (SE) (SE)	t	β	η^2						
Intercept	1.28(.18)***	7.05	0	0	1.41(.21)***)*** 6.72 0		0		
Meaning at Work	.36(.45)***	7.93	.35	.37	.35(.05)***	7.75	.34	.32		
Search for Meaning	01(.01)	57	02	<.01	01(.01)	59	02	0		
Work Relationships	.02(.02)	1.09	.05	.01	.01(.02)	.51	.02	0		
Transcendence	.19(.03)***	6.16	.27	.06	.19(.03)***	6.14	.27	.06		
Humility at Work	.09(.03)***	3.56	.13	.02	.09(.03)***	3.44	.13	.02		
Meaning Leadership	.07(.03)**	2.64	.11	0	.07(.03)**	2.65	.11	0		
Gender					04(.03)	-1.16	04	0		
Seniority					.03(.01)*	2.15	.08	.06		
Educational Status					03(.04)	82	03	0		
Adj. R ² =.467					Adj. R^2 =.	472				
F(6,445)= 67.08***					F(9,442)=45	5.85***				

Note. *p<.05; **p<.01; ***p<.001. SE=standard error (in parenthesis). η 2= eta-squared that represents the proportion of variance in the dependent variable explained by the independent variables. The dependent variable is job engagement.

Firstly, we employed regression analysis with the sub-dimensions of MW in Model 1 using R statistical computing environment (RStudio Team, 2022). Meaningful work explained 47% of the variance in job engagement (see Table 3). We found that meaning at work (β =.35, p<.001), transcendence (β =.27, p<.001), humility at work $(\beta=.13, p<.001)$, and meaning leadership $(\beta=.11, p<.01)$ were significant and positive predictors of job engagement, respectively. We found that search for meaning at work and work relations were not significant predictors of teachers' job engagement. When demographic factors (gender, seniority and educational status) were added in Model 2, the model still explained 47% of the variance in teachers' job engagement. The effects of MW subscales on JE were robust to model specifications when covariates were added. Meaning at work (β =.34, p<.001), transcendence (β =.27, p<.001), humility at work (β =.13, p<.001), and meaning leadership (β =.11, p<.01) were still significant and positive predictors of job engagement, respectively. Model 2 revealed that seniority was significant and positive predictor of job engagement (β =.08, p<.05). We ran moderation analyses to test whether gender, educational status, and seniority play a moderator role in the relationship between meaningful work and job engagement. The results of moderation analyses are presented in Table 4.

Moderation analyses indicated that the effects of MW subscales on JES-TR did not change mostly across moderator levels. Gender and educational status did not moderate the relationship between meaningful work and job engagement (see Table 4). Seniority moderated the relationship between work relationships and job engagement (β =.12, p<.05). This finding means that work relationships in conjunction with seniority results in job engagement.

Table 4

Moderation Analyses Results

Variable	Moderator: Gender				Moderator: Educational Status				Moderator: Seniority			
	Est. (SE)	t	β	η^2	Est. (SE)	t	β	η^2	Est. (SE)	t	β	η^2
Intercept	4.58(.02)***	* 281.5	7 0	0	4.58(.02)***	280.96	0	0	4.57(.02)***	272.87	0	0
Meaning at Work	.16(.02)***	7.46	.34	.37	.16(.02)***	7.48	.34	.37	.16(.02)***	7.29	.33 .	37
Search for Meaning	01(.02)	62	02	0	01(.02)	68	02	0	01(.02)	68	02	0
Work Relationships	.00(.02)	.16	.01	.01	.01(.02)	.67	.03	.01	.02(.02)	.99	.04 .	01
Transcendence	.13(.02)***	6.17	.27	.06	.12(.02)***	5.85	.26	.06	.12(.02)***	5.58	.25 .	06
Humility at Work	.06(.02)***	3.35	.13	.02	.06(.02)***	3.60	.14	.02	.06(.02)**	3.10	.12 .	02
Meaning Leadership	.06(.02)**	2.92	.13	0	.06(.02)*	2.60	.11	0	.06(.02)**	2.69	.12	0
Gender	02(.02)	-1.17	04	0	02(.02)	-1.26	05	0	02(.02)	-1.25	05	0
Seniority	.04(.02)*	2.18	.08	0	.04(.02)*	2.05	.07	0	.04(.02)*	2.20	.08	0
Educational Status	02(.02)	-1.08	04	0	01(.02)	60	02	0	01(.02)	63	02	0
Moderator x Meaning at Work	.01(.02)	.57	.03	0	.01(.02)	.61	.03	0	03(.02)	-1.52	07	0
Moderator x Search for Meaning	.02(.02)	1.09	.04	0	00(.02)	24	01	0	.00(.02)	.08	0	0
Moderator x Work Relationships	03(.02)	-1.65	07	0	01(.02)	54	02	0	.05(.02)*	2.58	.12	0
Moderator x Transcendence	.03(.02)	1.32	.01	0	.02(.02)	.91	.04	0	04(.02)	-1.74	08	0
Moderator x Humility at Work	.00(.02)	.15	.01	0	.02(.02)	.84	.03	0	00(.02)	03	0	0
Moderator x Meaning Leadership	.02(.02)	.75	.03	0	03(.02)	-1.53	12	0	00(.02)	18	01	0
	Adj.	$R^2 = .47$			Adj. I	$R^2 = .47$			Ad	j. <i>R</i> ² =.4	8	

F(15,436)=28.07*** F(15,436)=27.69*** F(15,436)=28.72***

Note. *p<.05; **p<.01; ***p<.001. SE=standard error (in parenthesis). η 2=eta-squared represents the proportion of variance in the outcome explained by the corresponding predictor variable. The dependent variable is job engagement.

Discussion and Conclusion

We examined the relationship between meaningful work and job engagement in this study. The findings revealed the meaningful work level of teachers was high. This finding is in line with the findings of studies on teachers (e.g., Akar, 2020; Fouché et al., 2017; Toptas, 2018). Willey (2016) reported that teachers working in international schools found their work meaningful in a qualitative study. Månsson and Persson (2005) reported that teachers found their work meaningful despite major challenges in the workplace, particularly at the psychosocial level. Furthermore, in another study, it was concluded academicians found their work highly meaningful (Balcı et al., 2019). The critical value of the teaching profession in raising qualified human resources can explain why teachers have such a high level of meaningful work. Kahraman and Çelik (2020) reported that teachers' perceptions regarding the prestige of the teaching profession were positive. The spiritual (intrinsic) satisfaction felt while performing the profession and the academic success of the pupils in return for their efforts are two aspects that motivate teachers (Karabağ-Köse et al., 2018). The teaching profession contributes to social progress in terms of raising future generations. In this respect, teachers' high level of meaningful work may be related to the fact that the teaching profession requires dedication and calling (Wrzesniewski et al., 1997).

Teachers often lose motivation due to excessive workload, stress, burnout, low wages, and society's lack of appreciation for the teaching profession (European Commission/EACEA/Eurydice, 2015; Karabağ-Köse et al., 2018). However, being a teacher means touching the lives of students, being versatile, being open to improvement, presenting fresh viewpoints, guiding, and struggling with challenges (Koşar, 2019). Teachers experience meaningful work through integrating personal and professional values, making a difference in students' lives, finding joy from creativity, developing via work, building meaningful connections, and feeling empowered by professional autonomy (Willey, 2016). Working closely with students, monitoring their progress, shaping the future, and thus assuming meaningful social responsibility can contribute to teachers' sense of meaningful work (Demirkasımoğlu, 2015). Moreover, teachers' contribution to students' learning and success by dedicating themselves to their work can provide them with intrinsic motivation and meaningful work experience.

The present study found that teachers have a high level of job engagement. Some studies in the literature concluded that teachers' job engagement emerge at high level (e.g., Basikin, 2007; Çarıkcı, 2020; Çelik, 2019; Ceviz, 2017; Fouché et al., 2017; Gün, 2017; Gürler, 2018; İnanır, 2020; Kavgacı, 2014; Özkeskin, 2019) and moderate level (e.g., Akdeniz & Ottekin Demirbolat, 2019; Coleman, 2016). In the present study, high intrinsic work motivation, positive psychological capital, work dedication, and perseverance in the face of difficulties may be effective in the high level of teachers' job engagement (Coleman, 2016; Eser, 2018; Price, 2017; Tösten et al., 2019). Individual psychological characteristics such as self-efficacy, optimism, resilience, and high levels of hope are effective in teachers' job engagement (Coleman, 2016).

This study showed a positive, moderate, and significant relationship between meaningful work and job engagement. This finding is consistent with the findings of studies on teachers (e.g., Fouché et al., 2017; Van Wingerden & Poell, 2019). Perceiving work as meaningful can increase teachers' sense of responsibility, wellbeing, and happiness. This context may play a role in teachers' putting more effort into their work and ensuring job engagement (Fouché et al., 2017; Fourie & Deacon, 2015; Lavy & Bocker, 2018). As a result of the role performance of the teaching profession, teachers' feeling of being rewarded for their efforts shows a state of meaningfulness, one of the psychological states stated by Kahn (1990). Except for *the search for meaning at work* dimension, positive and significant relationships were found in the meaningful work sub-dimensions and job engagement. To be human is to be in search of meaning throughout life. Teachers' opinions on seeking meaning at work may have changed due to the pandemic.

As a result of the research, we found that meaningful work was a significant predictor of teachers' job engagement. 47% of the variability in teachers' job engagement scores was explained by the six dimensions of the meaningful work scale. This finding is supported by the findings of studies conducted on teachers (e.g., Fouché et al., 2017; Van Wingerden & Poell, 2019). The variables explaining teachers' job engagement are listed in order of importance as meaning at work, transcendence at work, humility at work, meaning leadership at work, work relations, and search for meaning at work. The results showed that the dimensions of meaning at work, transcendence at work, humility at work, and meaning leadership were significant predictors of job engagement. Teachers who feel they are doing meaningful work while performing the teaching profession are aware that they are working for a purpose. This, in turn, can enable teachers to adapt their selves to their work roles and to feel engaged in their professions (Kahn & Heaphy, 2014).

In the present study, we found the search for meaning at work and work relations dimensions were not significant predictors of teachers' job engagement. This finding contradicts the findings of the studies in the literature that work relations ensure job engagement (e.g., Fouché et al., 2017; Kahn & Heaphy, 2014). Teachers' working conditions may change over time in unpredictable ways, such as during the Covid-19 pandemic (Harris & Jones, 2020). In such an environment of undeniable crisis and chaos, the adaptation process of teachers to the changes may take time. Hargreaves and Fullan (2020) reported that teacher cooperation, teacher-student relations, and teachers' work relations have weakened during the pandemic process. In another study by Ballová-Mikušková and Verešová (2020), it was found that teachers' negative emotions increased while their positive emotions decreased during the pandemic period. In the pandemic conditions covering the period in which this study was conducted, distance education was conducted in Turkey, as in many other countries of the world. In this period, teachers mostly established work relationships in the online environment. Therefore, the change in teachers' opinions of seeking meaning at work and work relations during the pandemic period may not have contributed positively to their level of job engagement.

The present study found that seniority was a significant and positive predictor of job engagement, while gender and educational status did not predict job engagement. The moderation analyses showed that gender and educational status did not moderate

the relationship between meaningful work and job engagement. These findings support studies that have found no significant difference in teachers' level of job engagement in terms of gender (e.g., Basikin, 2007; Çelik, 2019; Ceviz, 2017; Eser, 2018; Gün, 2017; Gürler, 2018; İnanır, 2020; Kavgacı, 2014; Özkeskin, 2019) and educational status (e.g., Akdeniz, 2018; Ceviz, 2007; Gün, 2017; İnanır, 2020; Özkeskin, 2019). However, some studies found male teachers had higher levels of job engagement than females (e.g., Akdeniz, 2018; Çağrı-San & Tok, 2017). Furthermore, some studies have concluded that teachers' job engagement levels decrease as their level of education increases (e.g., Çelik, 2019; Gürler, 2018; Jackson, 2004; Kavgacı, 2014). We found that seniority had a moderator effect on the relationship between work relationships and job engagement. Contrary to this result, some studies concluded that seniority did not make a significant difference in teachers' job engagement (e.g., Akdeniz, 2018; Ceviz, 2007; Çağrı-San & Tok, 2017; Gürler, 2018; İnanır, 2020).

The effects of meaningful work sub-dimensions on job engagement were robust to model specifications when covariates were added, and their effect did not change mostly across moderator levels. This indicates that interventions such as professional development that aim to improve teachers' job engagement should focus on 'meaningful work' in their program. Furthermore, these professional development programs should be structured to promote "work relationships" based on seniority status rather than gender or education level.

Experiencing teaching as meaningful work and ensuring job engagement can yield positive outcomes in terms of teacher motivation. In this context, important responsibilities fall on policymakers and education administrators to encourage teachers to feel meaningful work in their profession. Practices and policies such as supporting teacher autonomy, creating an environment of trust and positive communication, and making teachers feel valued can be implemented (Fouché et al., 2017). Thus, it can be ensured teachers transfer their energies to work and feel engaged in their jobs. Additionally, researchers can examine the relationship between meaningful work and job engagement in larger samples, including public and private schools. Studies on the relationship between the variables of meaningful work and job engagement with different variables can be conducted in educational organizations.

Statement of Responsibility

The study was conducted and reported with the equal collaboration of the researchers.

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