

### **Early Career Researchers perspective**

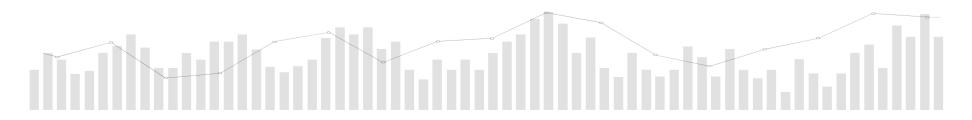
#### Dr. Eirini Tziaferi Senior Postodoctoral researcher NKUA-Greece

RECFA visit to Greece, 10 Nov. 2023



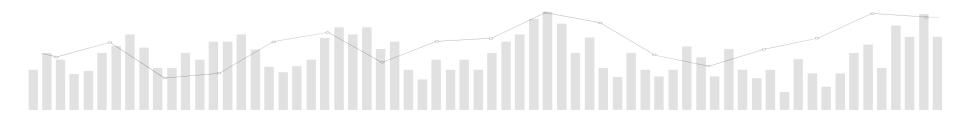
#### Outline

- Details on the Survey
- > Demographic Data
- Current Affiliation
- Field of Research
- Work Load
- > Work Satisfaction
- Future Plans & Career Opportunities



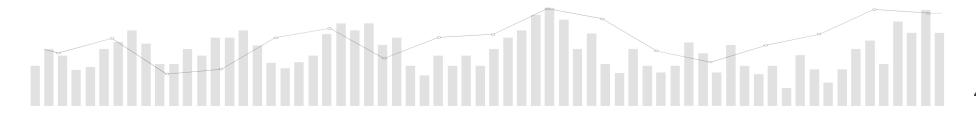


- > Presentation based on an anonymous survey.
- It was developed by the Hellenic Society for the Study of High Energy Physics (HSSHEP)
- Survey sent to more than 150 early career researchers (ECR)
  finally 37 participants.
- These researchers are currently working or used to work during the last 7 years with a Supervisor that has a permanent position in a Greek University or Institute.

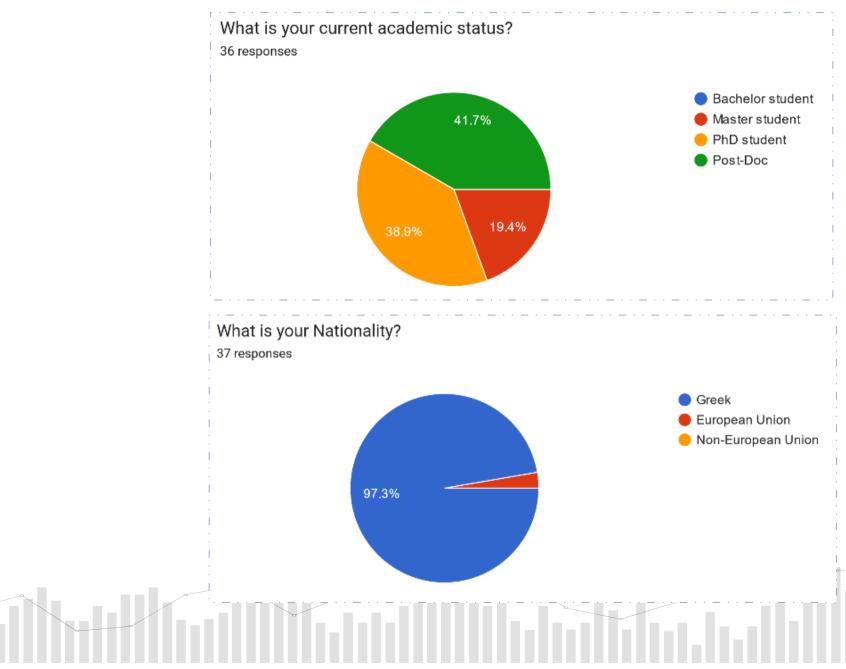




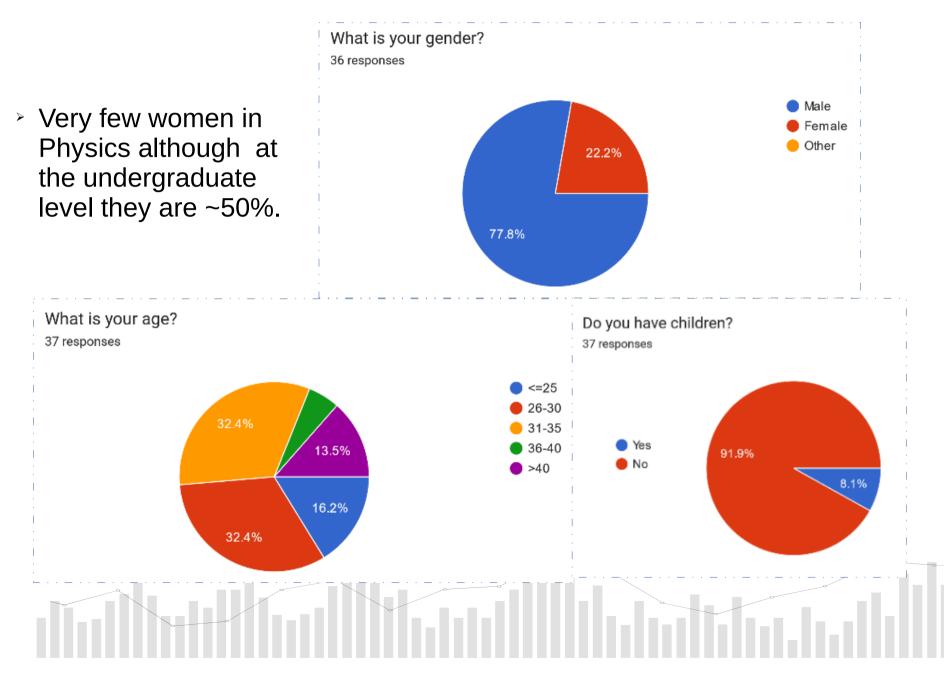
#### **About us** Who answered this survey?



# Demographic data



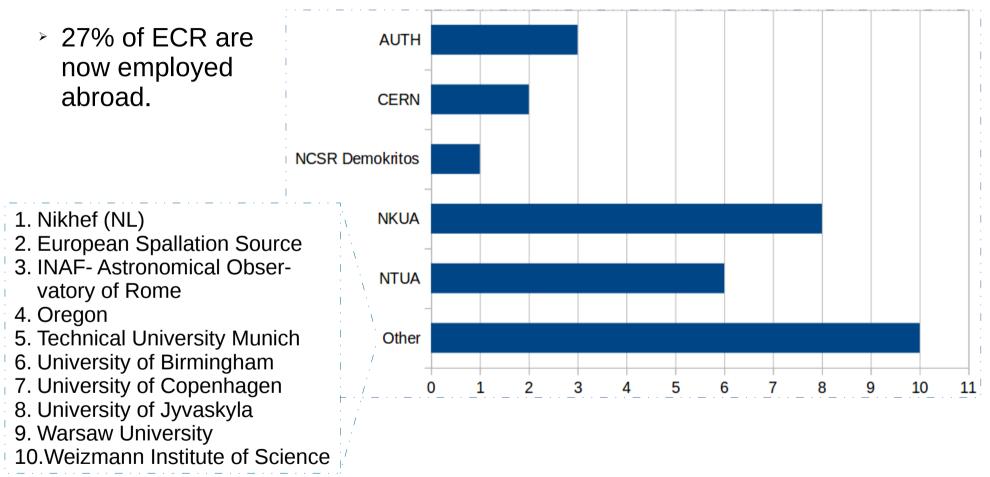
# Demographic data



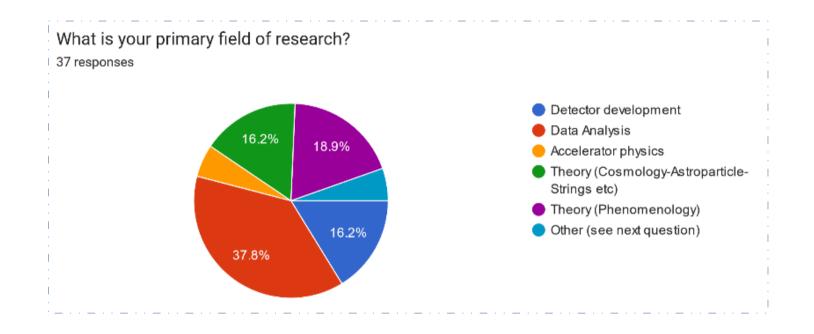


## Affiliation

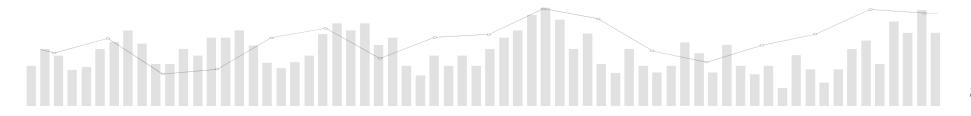
#### What is your affiliation?



# **Research Field**

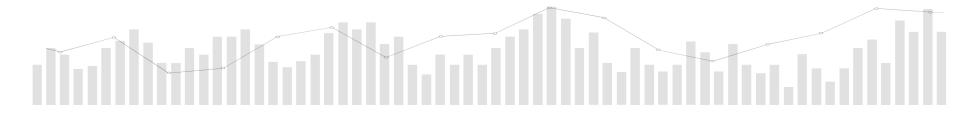


- > Almost 40% of the ECR work on **Data analysis**.
- > Relative large fraction,~35%, working on Theory.
- Sizeable fraction,~20%, working on Detector development & Accelerator physics.



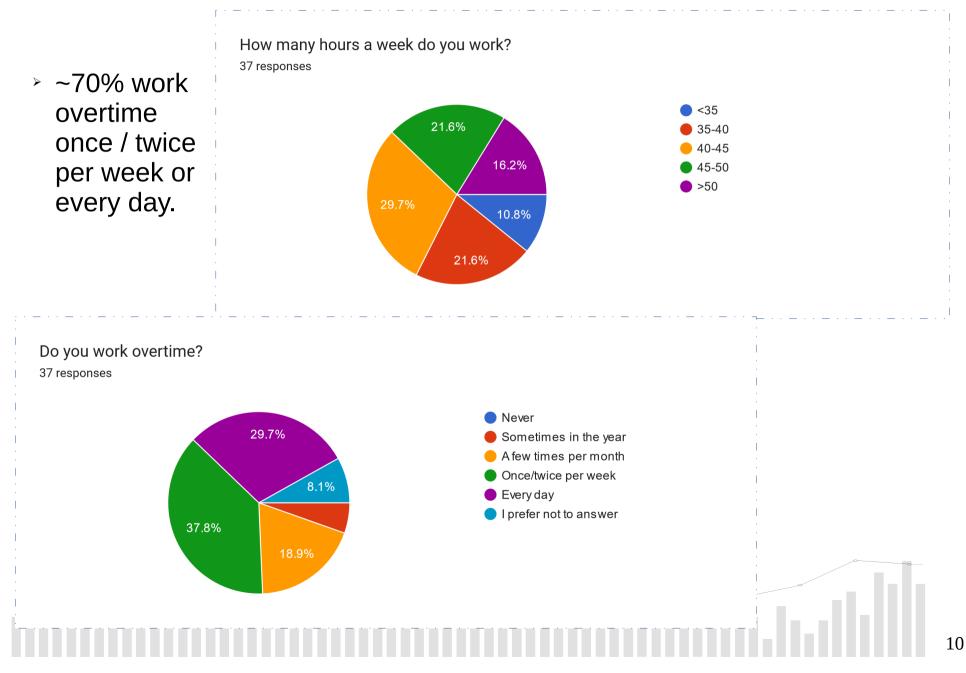


## Work load – Work satisfaction





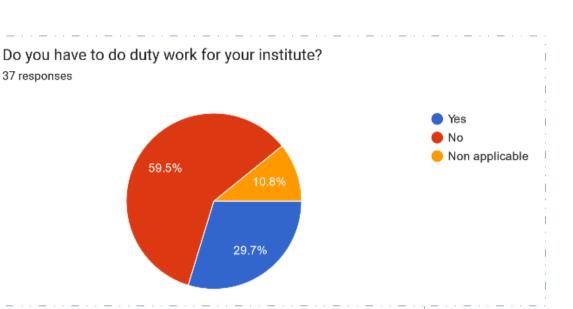
# Work load

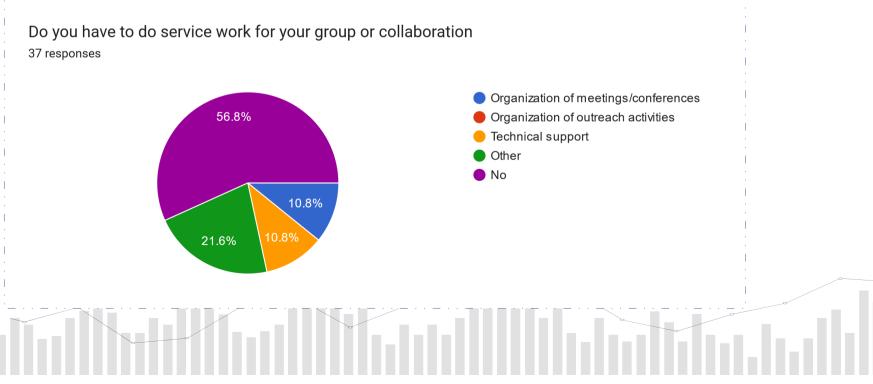




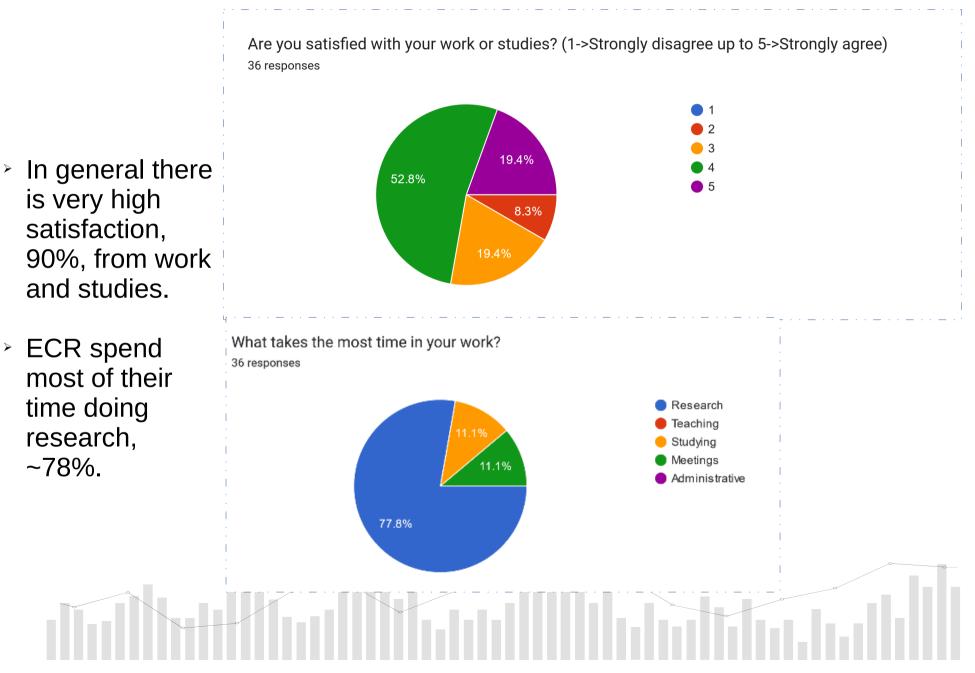
# Work load

- 60% do not have to do duty work for their institute.
- 57% do not have to do service work for their collaboration but keep in mind that 35% work in Theory.





# Work satisfaction



# Academic research environment & visibility

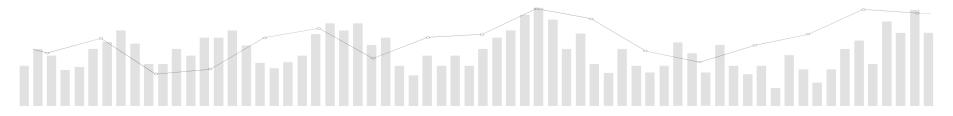
16.7%

Overwhelmingly large fraction has the opportunity to communicate widely their ideas and present their work in international conferences.

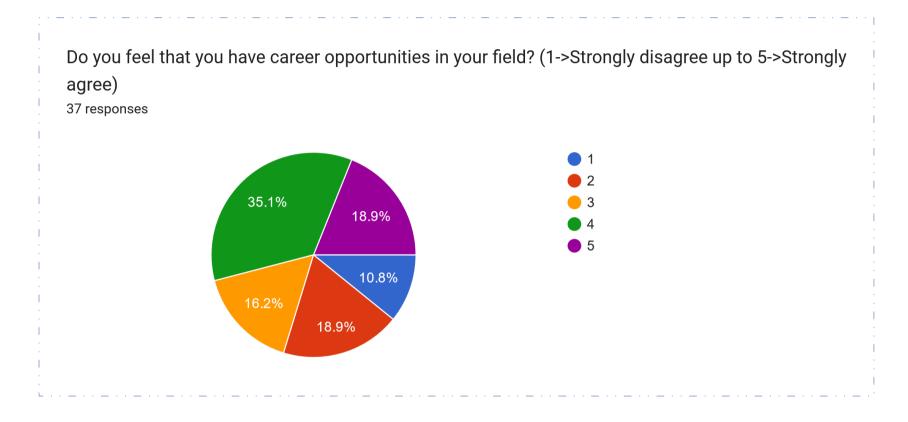
Do you have the opportunity to express your ideas within the group or collaboration? (1->Strongly disagree up to 5->Strongly agree) 37 responses 56.8% 10.8% 29.7% Do you have the opportunity to present your work in international conferences/meetings? (1->Strongly disagree up to 5->Strongly agree) 36 responses 44.4% 5 30.6%



## **Future plans**



# Career opportunities



70% believe that there are several career opportunities in the field (index  $\geq$  3).

Anything you have to say about career opportunities? 10 responses (see next slides)

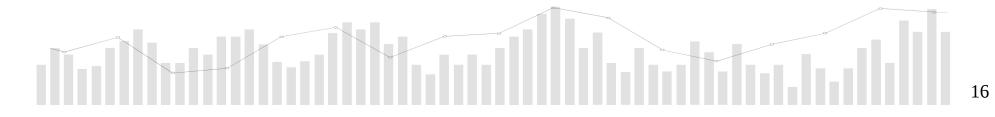


#### Some remarks within Greece

- \* "Not great opportunities within the greek academic system."
- \* "There are opportunities, but not in Greece."
- Career opportunities within Greek Universities cover extremely limited areas."
- Greek/Greece-affiliated list of HEP positions in a website/mailing list should be established."

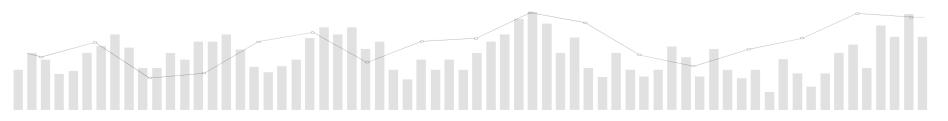
#### **Greece and Abroad**

- \* "My answer related to the academic field. Outside academia things are much better. The vast majority of my coevals (not only Greeks) have quit physics after 1 or 2 post docs."
- "I just feel that the Experimental Particle Physics Sector is kinda full."

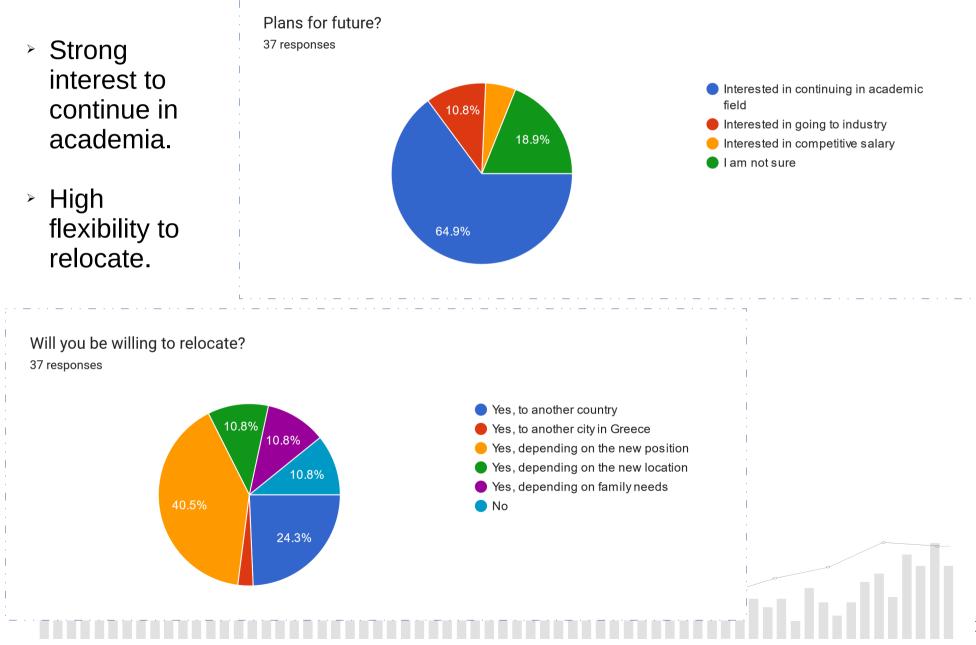


# Difficulties encountered

- "You need to be ready to change countries every 2-3 years."
- 'It's tough to find a permanent position."
- \* "There are many openings for postdocs every year worldwide, but very few new tenured or tenure-track positions. The pressure for constant relocations for postdocs is counter productive."
- \* "My filed of research is High Energy Theoretical physics and is or better seems less applicable on everyday life matters (which actually is completely true). Hence, society and governments devote less money on basic research which means that there are less career opportunities in my field compared to other field of research."



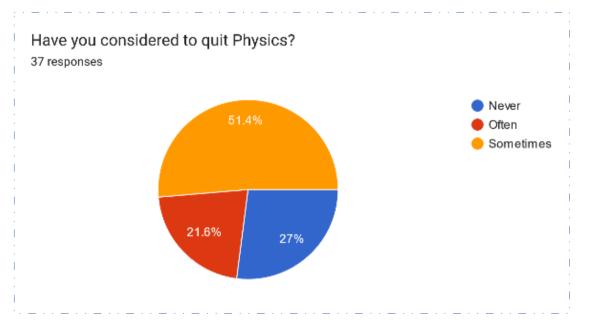
# **Future directions**



# Desire to stay in the field

 Large percentage of participants have occasionally considered quiting Physics but only 22% do so often.

 ~30% has never consider quitting

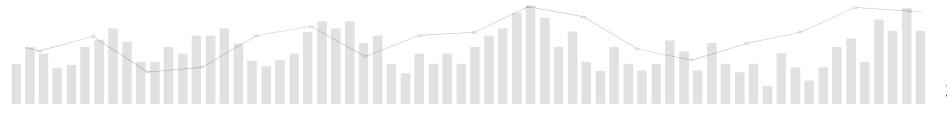


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Reasons to quit? 18 responses (see next slide)

# **Reasons to quit**

- \* "Other interests, gaining industry perspective and coming back to physics, salary."
- "Unemployment in Greece and scarce opportunities."
- "Feeling that I do not contribute to society."
- "Early-career academics (postdocs) often have to relocate every 1-3 years to a new country to continue their work in physics. If I continue along this path, I might end up with no family, no stable job or income, and no place to call home by the time I'm 35-40 years old."
- "The salary in this field is too low considering the risks one takes to stay in it."
- "The community does not seem to be very supportive."
- "Physics is a highly challenging field which can sometimes be mentally tiring."
- \* "Large amount of pressure, stress and anxiety, with minimal free time. Always having multiple projects to work on, and having to attend many meetings at the same time. Lower salary than in industry. Lastly, I am not sure I would enjoy teaching as much as I enjoy doing research."





- The survey was answered mainly by male post-docs and PhD students. They have Greek nationality and do not have children in their vast majority.
- > 35% work in theory
- > 70% work overtime either once/twice per week (40%) or everyday (30%).
- > 50% do not have to do duty/service work for their institute/collaboration.
- Most of their time is devoted on research (70%).
- There is a generall sense of high satisfaction, regarding work/studies, opportunities to express ideas, and present their work in international conferences/meetings (70-80%).
- > In what **concerns future plans, things may differ:** 
  - > 70% feel that there are career opportunities. Those that don't feel that way are mainly commenting about the situation in Greece.
  - 65% want to stay in academia and are willing to relocate with their main criterion being the new position. A significant amount of participants have stated that they are willing to leave the country for a new position.
  - Half of the participants have occasionally considered to quit Physics. Main reasons are often relocation uncertainty, low salary and stress.