

TRENDS IN RESEARCH JOB POSITIONS AND REQUIRED COMPETENCES

Galina Momcheva, Todorka Glushkova

Abstract. *The article explores current trends in research job positions with corresponding requirements as well as the competencies, skills, knowledge, attitudes and values for hybrid employees. Based on emerging of new positions such as principal investigators, prompt engineers, data stewards, and research software engineers a summary of new requirements are raised up including revised digital competencies, mathematical competencies and enhanced research competence, management for research competence, research and innovation project leadership, and entrepreneurial competence. Some special attention is focused on skills like traversal, design thinking, and computational thinking.*

From another perspective, the importance of analytical thinking, understandability, and research abilities extends beyond researchers; society as a whole must be ready to engage in citizen science and open science initiatives for well-being.

The effort focuses on optimizing the learning process, content, and learners, who are primarily expected to be working professionals with sufficient maturity who are willing to scale up for new research roles or acquire skills for micro jobs.

Acknowledgments

This study is supported by the project FP25-FMI-010 “Innovative interdisciplinary research in informatics, mathematics and educational pedagogy” at the Paisii Hilendarski University of Plovdiv.

Galina Momcheva¹, Todorka Glushkova²

¹ Institute of Mathematics and Informatics,
Bulgarian Academy of Sciences (IMI-BAS)

² Paisii Hilendarski University of Plovdiv,
Faculty of Mathematics and Informatics,
236 Bulgaria Blvd., 4003 Plovdiv, Bulgaria

Corresponding author: gmomcheva@math.bas.bg