# **Call for Papers**

Afeka Multidisciplinary Journal of Science and Engineering
Special Issue Honoring the Conclusion of Prof. Ami Moyal's Presidency

#### Theme of the Issue

## **Educating Engineers in an Era of Accelerated Technological Change**

## Background

In an age of ever–faster technological change—where developments such as artificial intelligence continually reshape society and industry—we must rethink how we prepare tomorrow's engineers and scientists. Israel's scientific-technological educational continuum now faces unprecedented challenges and opportunities, demanding innovative approaches to nurture skilled human capital that will underpin the nation's economic, social and strategic resilience.

During the past decade, under the leadership of Prof. Ami Moyal, Afeka – The Academic College of Engineering in Tel Aviv has developed a competency-based approach that weaves together professional knowledge, skills and values throughout the engineering-education process. Recognised in Israel and worldwide as an innovative model aligned with labour-market needs, this approach is documented in two Afeka position papers: \*A Framework for Planning and Implementing Educational Change\* and \*Embedding Competencies as Part of Educational Outcomes\*.

Committed to sharing insights and fostering collaboration along the entire educational continuum, the Afeka Multidisciplinary Journal of Science and Engineering invites contributions to a special issue on the future of engineering education—from school through military or national service, higher education and beyond.

### Key Topics (non-exhaustive)

- Models for integrating personal and professional skills at every stage of engineering education
- Unique pedagogical approaches to STEM education across the full educational continuum
- Adoption of advanced teaching-and-learning technologies (with particular emphasis on AI)
- Partnerships among schools, the IDF, academia, vocational training and industry
- The school system's role in laying the groundwork for successful engineering studies
- The "Excellence Intertwined with Enjoyment" philosophy and its campus manifestations
- Balancing scientific-engineering knowledge with values and broad general education
- Multidisciplinary perspectives on engineering practice in today's world
- Modern labour-market shifts and their implications for educating engineers

- The evolving graduate profile at each point of the education-to-employment pathway
- Experiences and insights from engineering-education change processes at Afeka or other institutions—and their impact on staff and learners

#### Intended Contributors

- Leaders of higher education in engineering and science
- Academic faculty engaged in engineering education
- School educators and administrators promoting STEM studies
- IDF commanders and leaders responsible for developing technological human capital
- Directors of vocational and tertiary training programmes
- Industry partners employing engineering graduates
- Researchers and innovators in engineering education
- Graduates of educational and training systems reflecting on their experiences
- Economists and labour-market analysts
- Policy-makers in STEM education and human-capital development
- Educational-technology experts
- Afeka academic and administrative staff involved in the change process
- Afeka students and alumni who experienced the educational transformation and its impact on their integration into industry

## **Submission Guidelines**

- 1. Abstract 250–300 words outlining the proposed contribution.
- 2. Author Biography up to 150 words per author.
- 3. Full Manuscript upon abstract approval, submit the complete paper in accordance with detailed guidelines to be provided.
- 4. Format Word document, David font, size 12, double-spaced.
- 5. Language manuscripts may be submitted in Hebrew or English.
- 6. References cite sources in APA style.

### **Timeline**

Milestone	Date
Abstract submission deadline	30 May 2025
Notification of acceptance	15 June 2025
Full-paper submission deadline	15 July 2025
Publication of the special issue	October 2026

## **Contact & Submission**

For enquiries and electronic submission, please write to Dr Kuti Shoham – vekutiels@afeka.ac.il