Name	Maksym Kurin
Position, Department/Faculty	Professor of Aircraft Engine Power Plant Production Technologies department / Faculty of Aircraft Engine
Academic Degree, Academic Title	Ph.D., Associate professor
Email:	m.kurin@khai.edu
Scopus Author ID:	[57201181835]
Web of Science ResearcherID:	[A-5480-2016]
ORCID iD:	[0000-0002-4178-2585]
Google Scholar:	[https://scholar.google.com.ua/citations?user=5BuQIi8AAAAJ&hl=uk]
ResearchGate:	[https://www.researchgate.net/profile/Maksym-Kurin]

EDUCATION:

Basic education (university, major, year of graduation):
National Aerospace University “Kharkiv Aviation Institute”, master on aircraft engines and power plants production technologies; research engineer; 2006

Postgraduate/Doctoral studies:
Ph.D., Dissertation “Investigation of planetary deep-grinding technology for flat surfaces of aircraft engines parts”, Doctoral studies

Additional training, certification programs:
Supervisor for tree PhD students

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):
Joint stock Company “FED”, 2006, service engineer of machines with CNC (MDW Max Müller).

Teaching Experience:
16 years of experience

Experience in International or National Projects:
18 years of experience in national project

RESEARCH ACTIVITIES:

Main Research Areas:
Materials Science, Materials Physics, Experimental Physics, Aerospace Engineering

Number of Publications (Scopus, WoS, others):
Scopus, WoS: 12; others: 50

Monographs, Textbooks:
Improving the efficiency of grinding difficult-to-machine materials [Tekst]: [monografiya] / [N. V. Surdu i dr.]; Nats. aerokosm. un-t im. N. Ye. Zhukovskogo "Khark. aviats. un-t". - Kharkov : KhAI, 2016. - 387 s.

Participation in Scientific Conferences:
1. Kurin, M., Nyshnyk, S., Dolmatov, A. (2020). Investigation of the Grinding Process Considering the Increase of the Active Surface of Abrasive Grains. In: Ivanov, V., Trojanowska, J., Pavlenko, I., Zajac, J., Peraković, D. (eds) Advances in Design, Simulation and Manufacturing III. DSMIE 2020. Lecture Notes in Mechanical Engineering. Springer, Cham. https://doi.org/10.1007/978-3-030-50794-7_39
2. Kurin, M., Nyshnyk, S., Dolmatov, A. (2021). The Influence of Grinding Modes on the Quality of the Surface Layer. In: Ivanov, V., Trojanowska, J., Pavlenko, I., Zajac, J., Peraković, D. (eds) Advances in Design, Simulation and Manufacturing IV. DSMIE 2021. Lecture Notes in Mechanical Engineering. Springer, Cham. https://doi.org/10.1007/978-3-030-77719-7_43
3. Onopchenko, A., Horbachov, O., Sorokin, V., Dudukalov, Y., Kurin, M. (2023). Optimal Conditions for Deformation of Stamping-Drawing Process from Aviation Materials. In: Tonkonogyi, V., Ivanov, V., Trojanowska, J., Oborskyi, G., Pavlenko, I. (eds) Advanced Manufacturing Processes IV. InterPartner 2022. Lecture Notes in Mechanical Engineering. Springer, Cham. https://doi.org/10.1007/978-3-031-16651-8_11

TEACHING ACTIVITIES:

Courses Taught:
"Materials Science and Technology of Materials", "Metrology and standardization", "Automation of technological processes", "Basics of Interchangeability"

Author Courses, Academic Programs:
Advanced production technologies of aviation engines and power plants

Methodological Materials, Textbooks:
1. Basics of Interchangeability: Summary lectures / M.K. Knyazyev, V.O. Dyadin, B.S. Bilokon, M.O. Kurin. – Kharkiv: National Aerospace University named after M.Ye. Zhukovsky “Kharkiv Aviation Institute”, 2012. – 92 p.
2. Basics of Interchangeability: Manual to Laboratory Works / M.K. Knyazyev, V.O. Dyadin, M.O. Kurin., O.O. Gorbachov – Kharkiv: National Aerospace University named after M.Ye. Zhukovsky “Kharkiv Aviation Institute”, 2013. – 84 p.
3. Interchangeability and Standardisation. Instructions for Performance of Calculation-Graphic Paper / M. K. Knyazyev, M. O. Kurin, K. A. Danko et al. – Kharkiv: National Aerospace University named after M. Ye. Zhukovsky “Kharkiv Aviation Institute”, 2017. – 60 p.

GRANTS AND PROJECTS:

Participation in International and National Projects:
1."Theoretical foundations of creating protective nanocomposite coatings on highly loaded structural elements of aircraft engines" (No. DR 0112U001320);
2."Theoretical foundations of creating a single comprehensive quality management system for critical aerospace parts using technological methods" (No. DR 0115U001220);
3."Integrated technologies for quality management for critical aerospace parts" (No. DR 0117U002503);
4."Improving productivity and environmental safety of processes of mechanical cutting, plastic deformation and coating on difficult-to-machine materials of gas turbine engine parts" (No. DR 0120U102116).

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Distinctions, Awards, Prizes:

1. Laureate of the regional scholarship in the field of science and technology named after G.F. Proskura (2015);
2. Certificate of the Kharkiv Regional Council (2025).

INTERNATIONAL ACTIVITIES:

Internships:
International remote (online) scientific and pedagogical internship on the topic “Use artificial intelligence in education in the training of doctor of philosophy (PHD) candidates: International experience”, 2025, Republic of Poland

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):
1. A.V. Onopchenko, M.O. Kurin, and Yu.V. Shyrokyi, Ensuring Quality of Stamping Sheet Aviation Parts, Progress in Physics of Metals, 25, No. 2: 320–363 (2024) https://doi.org/10.15407/ufm.25.02.320;
2. Onopchenko, A. V., Kurin, M. O., Shyrokyi, Y. V. ., & Horbachov, O. O. (2024). Investigation the plastic flows in the metal stamping-drawing process at the die corner. Acta Polytechnica, 64(4), 385-397. https://doi.org/10.14311/AP.2024.64.0385;
3. M. O. Kurin, O. O. Horbachov, A. V. Onopchenko, and T. V. Loza, Modelling and Simulation of the Plastic Flows in Metal, Metallofiz. Noveishie Tekhnol., 44, No. 6: 785–806 (2022). https://doi.org/10.15407/mfint.44.06.0785;
4. M. O. Kurin, Determination of the Boundaries of Plastic Zone of Metal Deformation During the Cutting, Prog. Phys. Met., 21, No. 2: 249–273 (2020) https://doi.org/10.15407/ufm.21.02.249;
5. M. O. Kurin, Analysis the Process of Plastic Deformation Metal Chip at Non-Free Cutting, Metallofiz. Noveishie Tekhnol., 42, No. 3: 433—449 (2020) https://doi.org/10.15407/mfint.42.03.0433.

Books, Chapters in Collective Monographs:
Chapter in monographs “Improving the efficiency of grinding difficult-to-machine materials”, 2016. - 387 s.

Links to Citation Database Profiles:
1. https://www.scopus.com/authid/detail.uri?authorId=57201181835
2. https://www.webofscience.com/wos/author/record/A-5480-2016
3. https://www.researchgate.net/profile/Maksym-Kurin

ADDITIONAL INFORMATION:

Language Proficiency:
English – B2; Russian & Ukraine – fluency

IT Skills:
MS Office, MS Excel, AutoCAD, Mathcad, Solid Works

Social and Community Activities:
From 2009 to 2011 - Deputy Executive Secretary of the Faculty Selection Committee, and from 2011 to 2014 - Executive Secretary;
Deputy Head of the Department from 2015 to 2016.