

PERSONAL INFORMATION



György Hegedűs

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Date of birth 08/05/1977 | Nationality Hungarian

POSITION

Associate professor

WORK EXPERIENCE

01/09/2013–Present

Associate professor

University of Miskolc, Institutional Department of Machine Tools
Educational and research tasks.

01/09/2010–31/08/2013

Senior lecturer

University of Miskolc, Department of Machine Tools
Educational and research tasks.

01/09/2005–31/08/2010

Assistant lecturer

University of Miskolc, Department of Machine Tools
Educational and research tasks.

01/09/2004–31/08/2005

Technical assistant

University of Miskolc, Department of Machine Tools
Educational and research tasks.

01/09/2001–31/08/2004

PhD student

University of Miskolc, Department of Machine Tools
Research of high-lead ball screw drives.

EDUCATION AND TRAINING

01/09/2001–31/08/2004

István Sályi Doctoral School, University of Miskolc, Faculty of Mechanical Engineering

01/09/2000–30/06/2002

Mechanical engineer (technical translator in English)

University of Miskolc, Faculty of Mechanical Engineering

01/09/1996–30/06/2001

Mechanical engineer (machine tool designer)

University of Miskolc, Faculty of Mechanical Engineering

01/09/1995–30/06/1996 **Business organizer technician**
Gyula Andrásy Technical High School, Miskolc

01/09/1991–30/06/1995 **Manufacturing technician**
Gyula Andrásy Technical High School, Miskolc

PERSONAL SKILLS

Mother tongue(s) Hungarian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
German	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills

- 2015 The University of Miskolc and the city of Miskolc development of a coordinated knowledge transfer and innovation service and building a sustainable partnership with strategic economic actors.
- 2014-2015 Conceptual development of integrated technology and tooling systems.
- 2011-2013 Determination of conjugate pairs of internal threaded mechanical elements with numerical methods. Improving the accuracy of ball screws.
- 2009-2011 Introduction and intensive application of increased productivity of ultra-precise technologies and equipment at the University of Miskolc, optimal design of kinematic motion transmitting surfaces.
- 2009 Development of automated test methods and equipment integrated in the manufacturing and renewal system of automotive components to improve quality assurance.
- 2009 Development of methods for determining remanent lifetime of rolling bearings.
- 2007 Development of maintenance system, statistical analysis (Bosch Rexroth Pneumatics Ltd.).
- 2007 Development of maintenance system (Carl Zeiss Hungaria Optics Ltd.).
- 2006 Increasing of productivity on CNC machining centers using zero-point systems.
- 2006 Development of a new system of eco-friendly pallets for different types of stationary hot water storage.
- 2005 Software development for mobile hole measuring of large welded excavator arms.
- 2005 Software development for CAD systems to define grinding wheel profile.
- 2004 Research and development of increasing the accuracy of ball screw.
- 2003 Research and development of mechatronic machine tool components.
- 2002 Exploration of measurement concepts for welded excavator arms.
- 2001 Research and development of mechatronic machine tool components.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Software knowledge:

- Microsoft Office™ (Word™, Excel™, PowerPoint™);
- AutoCAD (R14 - 2018);
- AutoDesk Inventor;
- CATIA V5R7-V5R21;
- Siemens PLM NX (Unigraphics NX)
- ProEngineer;
- SOLID EDGE;
- SOLIDWORKS;
- MasterCAM, RobotMaster;
- HTML, javascript programming, Visual Basic programming;
- MATLAB;
- MAPLE.

Driving licence B

ADDITIONAL INFORMATION

Honours and awards

2017 - Dean's Honor for excellent researcher, University of Miskolc, Faculty of Mechanical Engineering and Informatics

2013 - MAB István Szentpáli Science Award

2013 - Ányos Jedlik Scholarship for Pre-Doctoral Candidates in the frames of National Excellence Program

2005 - GTE Technical Literature Award

Conferences

Home conferences (as lecturer)

- Technical Science in the North-Eastern Region of Hungary 2014, Szolnok, 13 May 2014.
- XXIX. Seminar of Engineers and Product Developers, Miskolc, 7-8 November 2013.
- 1st International Scientific Conference on Advances in Mechanical Engineering (ISCAME 2013) 10-11 October 2013., Debrecen, Hungary
- ICPM 2013 - 7th International Congress on Precision Machining, 3-5 October 2013., Miskolc, Hungary
- Dissemination Conference of Mechatronics and Logistics Excellence Center, Miskolc, 25 May 2012.
- Technical Science in North-East Hungary Region, 10 May 2012., College of Szolnok
- Hungarian Academy of Sciences Department of Mechanical Engineering, Scientific Committee of Mechanics - Subcommittee on Mechanisms, 9 May 2012., Budapest, Budapest University of Technology and Economics, Faculty of Mechanical Engineering
- XXVI. microCAD International Scientific Conference, University of Miskolc, 29-30 March 2012., L1 section: Production Engineering and Manufacturing Systems
- 13th International Conference on Tools, ICT 2012, 27-28 March 2012., Miskolc, Hungary
- XXVII. Seminar of Engineers and Product Developers Miskolc, 10-11 November 2011.
- GTE Production Systems Section Meeting, University of Miskolc, 8 April 2011.
- MicroCAD 2010, International Scientific Conference, 18-20 March 2010., Miskolc, Section L: Machine and Construction Design
- MAZAK-SECO-PannonCAD Professional Day, 25 February 2009., University of Miskolc

- Ph.D. Forum, Machinery and Structural Design Section, University of Miskolc, 9 November 2005.
- The MeAKKK II. Seminar of the University of Miskolc, 25 February 2005.
- MicroCAD 2005, International Scientific Conference, 10-11 March 2005., Miskolc, Section M1: Production Engineering and Manufacturing Systems
- Ph.D. students' Forum, Machinery and Structural Design Section, University of Miskolc, 6 November 2003.
- Professional symposium on the 40th Anniversary of the Department of Machine Tools, 17 October 2003.
- IV. International Conference of PhD Students University of Miskolc, 14 August 2003., Section D2: Engineering Science
- MicroCAD 2003, International Scientific Conference, 6-7 March 2003., Miskolc, Section K: Machine and structure design
- XVIII. National Seminar of Machine Designers and Product Developers, Machine and Product Design Section, Miskolc, 7-8 November 2002.
- Ph.D. students' Forum, University of Miskolc, 6 November 2002.
- Ph.D. students' Forum, Machinery and Structures Design Section, University of Miskolc, 6 November 2001.

Foreign conferences (as lecturer)

- The 40th International Conference on Mechanics of Solids, Acoustics and Vibrations ICMSAV 2016 and The 6th International Conference on Advanced Composite Materials Engineering COMAT2016, 24-25 November 2016., Brasov, Romania
- 10th International Conference on Advanced Engineering, Computer Aided Design and Manufacturing, 19-22 September 2012., Vis, Croatia
- XX. International Conference on Mechanical Engineering - OGÉT 2012, 21 April 2012., CAD, Gear Drive, Mechatronics and Fine Mechanics Section
- XIII. International Conference on Mechanical Engineering - OGÉT 2005, 30 April 2005., Section CAD
- XII. International Conference on Mechanical Engineering - OGÉT 2004, 24 April 2004., General Mechanical Engineering II. section
- XI. International Conference on Mechanical Engineering - OGÉT 2003, 10 May 2003., Quality Assurance and Environmental Protection, Transport Technology Section

Study tours

- Apr. 2013: FESTO Didactic TiT Workshop, FESTO Didactic, Denkendorf, Germany
- Oct. 2012: VIENNA-TEC, Internationale Fachmesse für Industrie und Gewerbe, Vienna-Austria
- Sept. 2012: CADAM 2012, International Scientific Conferences, Advanced Engineering, Computer Aided Design and Manufacturing, Vis-Croatia
- Apr. 2012: XX. International Mechanical Meeting, Cluj-Napoca, Romania
- Sept. 2009: EMO (Exposition Mondiale de la Machine Outil) Milan 2009, Machine Tool World Expo, Italy
- Sept. 2007: Expo Mondiale de la Machine Outil Hannover 2007, Machine Tool World Expo, Germany
- Jan. 2007: Fraunhofer Institute für Produktionstechnologie IPT, Aachen, Germany
- July 2006: Diasfin SA, Bucharest-Romania
- Sept. 2005: EMO (Exposition of the Machine Outil) Hannover 2005, Machine Tool World Expo, Germany
- Apr. 2005: XIII. International Conference on Mechanical Engineering, Satu Mare, Romania
- Apr. 2004: XII. International Conference on Mechanical Engineering, Sumuleu Ciuc, Romania
- May 2003: XI. International Conference on Mechanical Engineering, Cluj-Napoca, Romania