Institute for Machine Tools and Factory Management

Technische Universität Berlin

Chair
Machines and Technology for Additive Manufacturing of precise Metallic Components
Professor Dr.-Ing. Julian Polte

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Our sign
PoJ

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Departamento de Matemática
Faculdade de Ciências
da Universidade do Porto
Rua Campo Alegre 687
4169-007 Porto, Portugal

Berlin, 26. Juni 2022

Invitation Letter | for Dr. rer. nat. Christian Lomp, born in 1969.11.07, from University of Porto | master thesis and research collaboration

Dear Sir or Madame,

I would like to invite Dr. rer. nat. Lomp from September, 2022 to January, 2023 in our institute IWF at the Technische Universität Berlin in Germany to jointly research on topics related to machine learning in production technology with special focus on industrial robots.

Dr. rer. nat. Lomp will be provided by a fully equipped workplace with access to all the needed facilities for his research. Financial expenses will be covered by Dr. rer. nat. Lomp himself, which includes daily expenses, transportation costs, accommodation costs, etc.

Please find enclosed my electronically signed curriculum vitae.

Yours sincerely,

Professor Dr.-Ing. Julian Polte

Curriculum Vitae

General Information

Name:	Professor Dr.-Ing. Julian Polte
Date of Birth:	11th August 1985
Gender:	male
Address:	Technische Universität Berlin Institute for Machine Tools and Factory Management (IWF) Pascalstraße 8-9 10587 Berlin
	Fraunhofer Institute for Production Systems and Design Technology (IPK) Pascalstraße 8-9 10587 Berlin
	Germany
Phone:	+49 30 314-70886
E-Mail:	Julian.polte@tu-berlin.de | Julian.polte@ipk.fraunhofer.de
Position:	Head of Chair Machine Tools and Technologies for Additive Manufacturing of Precise Metallic Components; Deputy Division Director; Head of Department Manufacturing Technologies; Production Machines and System Management Production Systems at Fraunhofer Institute for Production Systems and Design Technology (IPK)

Academic Education

Subject:	Mechanical Engineering
Period:	2006 - 2010
University:	University of Applied Sciences Brandenburg
Degree:	Dipl.-Ing. (FH)
Subject:	Production Technology
Period:	2010 - 2012
University:	Technische Universität Berlin
Degree:	Master of Science

Academic Degrees

Doctorate:	Dr.-Ing.
University:	Technische Universität Berlin
Year:	2017
Supervisor:	Prof. Dr. h. c. Dr.-Ing. Eckart Uhlmann

Professional Career

2022 - today	Head of Chair Machine Tools and Technologies for Additive Manufacturing of Precise Metallic Components

2020 - today	Deputy Division Director Production Systems, Fraunhofer Institute for Production Systems and Design Technology (IPK)
2018 - today	Head of Departments Production Machines and System Management and Manufacturing Technologies, Fraunhofer Institute for Production Systems and Design Technology (IPK)
2017	Deputy Head of Department Microproduction Technology, Fraunhofer Institute for Production Systems and Design Technology (IPK)
2012 - 2017	Research associate and group leader at the Department of Machine Tools and Manufacturing Technology, Institute for Machine Tools and Factory Management (IWF) of the TU Berlin

Miscellaneous

2020 - today	Expert reviewer, The International Academy for Production Engineering (CIRP)
2018 - 2020	Research Affiliate, The International Academy for Production Engineering (CIRP)
2018 - today	Member, European Society for Precision Engineering and Nanotechnology (EUSPEN)

Main Publications

2021	Polte, J.; Polte, M.; Lahoda, C.; Hocke, T.; Uhlmann, E.: Additive Manufacturing of precision cemented carbide parts. euspen´s 21st international conference, Copenhagen, DK, 2021.
2020	Uhlmann, E.; Polte, J.; Bolz, R.; Yabroudi, S.; Streckenbach, J.; Bergmann, A.: Application of additive manufactured tungsten carbide-cobalt electrodes with interior flushing channels in S-EDM. Procedia CIRP 95 (2020), p. 460 – 465.
2017	Polte, J.: Kubisch-kristallines Bornitrid als Schneidstoff in der Ultrapräzisions-Zerspanung. Berichte aus dem Produktionstechnischen Zentrum Berlin. Ed: Uhlmann, E. Stuttgart: Fraunhofer IRB, 2017.
2014	Polte, J.; Polte, M.; Lorenz, D.; Oberschmidt, D.; Sturm, H.; Uhlmann, E.: Binderless-cBN as cutting material for ultra-precision machining of stainless steel. Journal of Advanced Materials Research, Vol. 1018 (2014), p. 107 – 114.