



Postdoctoral Fellowship in Product Lifecycle Management (PLM)

at the

CACE Digital Fabrication Lab

College of Arts and Creative Enterprises (CACE)

Zayed University Dubai, August 2019

The Opportunity

The College of Arts and Creative Enterprises seeks a qualified candidate to fill a full-time Postdoctoral Fellowship in Product Lifecycle Management (PLM) at the CACE Digital Fabrication Lab. The appointment begins in August 2019 on the Dubai campus. The expected duration of the position is two years with a possibility of renewal for a third year.

Under supervision of Prof. Dr.-Ing. Thorsten Lomker, Principal Investigator (PI) of the Research Cluster “21st Century Fabrication and Robotics” the fellow co-supervises the work of undergraduate students and staff, publishes research papers, contributes to grant writing and project development, and helps shape the overall scope and direction of research in the area. The primary focus of the fellowship is on research related to the development of design products under utilization of SIEMENS Product Lifecycle Management software. The PI is one of five recipients of a 100 Mio. EUR software grant from SIEMENS and the UAE Ministry of Education. A second aspect of the position is the advancement of digital fabrication methods, especially robotics in the context of Art and Design education in the United Arab Emirates. We address educational challenges and questions that arise from the use of innovative fabrication technologies in the UAE environment. We research the impact of these technologies onto the quality of the students’ work, and derive answers from these works to adjust and shape the direction of current and future curricula.

With the Postdoctoral Fellowship in Product Lifecycle Management (PLM), the University expects the field to become one of its prime sources for publication/research output. The fellow is granted an annual budget to be spent on infrastructure development, material, dissemination of research results, or the like.

The Requirements

The Postdoctoral Fellow must have a solid background in all aspects of Product Lifecycle Management (PLM) and robotic machining, preferably but not necessarily in the Industrial or Product Design fields. Our research addresses local students, and their specific needs regarding the usage of new means to design, evaluate and construct artefacts. The fellow is expected to actively contribute to the generation of new

knowledge in this field. The fellow is also expected to contribute to the further development of the lab's technological infrastructure. Applicants must have earned a Doctoral degree in a field related to the position and must demonstrate a strong record of research and publications. More important than the actual profession of the applicant is the willingness and ability to contribute to an area of research that combines a multitude of different disciplines originating from engineering, art, design, information technology, and educational innovation.

Even though teaching is not required, the successful applicant should have a record of teaching and is expected to co-supervise students. The successful candidate should demonstrate versatility, forward thinking, and advanced working knowledge of leading technology in the field of Product Lifecycle Management (PLM). The candidates' approach and experience in engaging students in related fields, should be evident from their statement of teaching philosophy.

Successful candidates will also demonstrate:

- Dedication to curricular innovation.
- Strong commitment to scholarship and creative activities, and an interest in collaboration.
- Strong commitment to the dissemination of research results through publications in scholarly journals.
- Substantial level of proficiency in the usage of hard- and software related to the field.
- Willingness to administer and enhance the lab's infrastructure in conjunction with the lab technician.

The Benefits:

The University's benefits package is highly attractive, with competitive salaries free of tax in the UAE, housing, a furniture allowance, annual vacation airline tickets for the employee and immediate family, educational subsidies for children and healthcare is provided to the employee and sponsored family members. The successful applicant will undergo an in-depth software training on the SIEMENS licenses.

To Apply:

Please include the following in the given order and merged into one A4 PDF-file (*yourlastname.pdf*):

1. Cover letter (max. 300 words)
2. Current Curriculum Vitae
3. Statement of teaching philosophy (max. 300 words)
4. Statement of scholarly and/or creative interests (max. 300 words)
6. The names and contact details of three professional references
7. Three selected publications
8. Samples of research/creative projects (max. 5 pages)

Review of pre-applications will begin immediately and continue until the position is filled. For enquiries and pre-applications please contact Prof. Dr.-Ing. Thorsten Lomker (thorsten.lomker@zu.ac.ae), Principal Investigator of the Research Cluster "21st Century Fabrication and Robotics". Further information about the CACE fabrication lab can be found on: <http://zu.ac.ae/main/en/news/2016/November/fablab.aspx> and https://www.zu.ac.ae/main/en/at_zayed/2017/seimens-grant.aspx