The Fraunhofer Institute for Additive Manufacturing Technologies IAPT in Hamburg is one of the leading institutions for the industrialization of additive manufacturing techniques. With its focus on the industrialization of additive technologies, sustainable innovations are created along the entire process chain. These range from developments at the process and material level, through the development of novel component designs and system technologies, to data processing and digitalization.

Background

Directed Energy Deposition is an Additive Manufacturing process that employs a 6-axis industrial robot coupled with a deposition head to manufacture components in a layer-by-layer fashion. The advantage of such a system lies in the dexterity of robot that enables fabrication of components in multi-direction. Automated and Intelligent data preparation plays a significant role in industrialization of this technique.

Task Description

- Development of a suitable software framework for automation of CAD data pre-processing
- Development of various pseudocodes and algorithms for different pre-processing steps
- Implementation of AM process strategies and know-how within the software architecture

What we expect from you

- Interest in programming and software development
- Good knowledge in programming languages like C++ and Python
- High affinity to software development
- Basic knowledge in Additive Manufacturing processes
- Structured and independent way of working

What you can expect from us

- Interesting and exciting tasks in an innovative working environment
- Relevant practical and work experience in a rapidly growing technology
- Cooperation in a committed team with a wide range of tasks

Differently abled persons are given preferential employment if they are equally suitable.

Please note that the chosen job title also includes the third sex.

The Fraunhofer-Gesellschaft attaches great importance to gender-independent professional equality.

Fraunhofer is Europe’s largest application-oriented research organization. Our research efforts are geared entirely to people’s needs: health, security, communication, energy and the environment. As a result, the work undertaken by our researchers and developers has a significant impact on people’s lives. We are creative. We shape technology. We design products. We improve methods and techniques and we open up new Vistas.

If you are interested, please apply exclusively online with all necessary documents (cover letter, CV, certificates).

For further questions:
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