

The Fraunhofer research group “Process Engineering in Construction” performs applied research in the field of improved execution planning and management of small and medium-sized construction projects.

Research Associate (Civil Engineer or Industrial Engineer)

Position description: The research associate (RA) will contribute to the 3-year interdisciplinary project COCKPiT (Collaborative Construction Process Management), conducted by Fraunhofer Italia together with the Free University of Bozen-Bolzano and supported by major construction companies in the region. The initial contract will span 2 years, with the option to extend it until the end of the project (July 2020). The RA will work at the university.

The project has the goal to develop methodologies and tools for modeling, planning and supervising in real-time the construction process of small and medium-sized building projects. It builds upon previous collaborations of the partners that led to successfully employed management techniques for individual companies, which we now want to generalize and for which we want to give IT-support.

An initial task of the successful candidate will be to identify and analyse methodologies and software applications commonly used to plan, schedule and monitor construction projects and to identify their strengths and weaknesses. At the same time, the (s)he will participate in workshops and meetings with construction companies to identify their requirements for a planning and management methodology.

Subsequently, the s(he) will contribute to the formulation of requirements for a software prototype that supports the three phases of planning and management: 1) modeling of the construction process, 2) short-term scheduling of tasks on-site and 3) monitoring/supervision in real-time of the construction progress.

The RA will also collaborate in publishing the reached results and presenting them at international workshops and conferences. Moreover, there is the possibility to contribute to academic teaching in the area of research.

The person we are looking for:

- Owns a degree in the field of civil or industrial engineering;
- Likes research challenges and wants to see his/her work have an impact on companies;
- Is able to work autonomously;
- Enjoys bringing to bear his/her creativity and working in teams, with people from different scientific and cultural backgrounds.

If you are interested in the position, please send an email with your CV and a short statement of interest to info@fraunhofer.it and we will contact you.

Contacts:

- Ing. Carmen Marcher (carmen.marcher@fraunhofer.it)
- Dr.-Ing. Patrick Dallasega (patrick.dallasega@unibz.it)