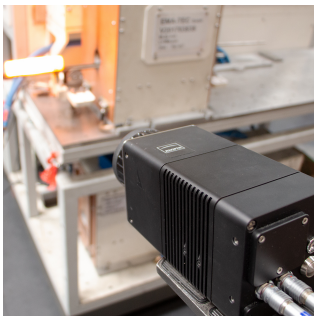
bachelor thesis, project thesis

Concept development for efficient heating strategy (massive forming)

The research project investigates heating in forging and its optimization to reduce the CO2 footprint. A particular focus is on reducing energy consumption and emissions through innovative heating technologies. There is a great industrial need for energy-efficient and environmentally friendly production processes. Our aim is to enable companies to make their processes not only more environmentally friendly, but also more economical, which contributes to both strengthening competitiveness and promoting Germany as a business location.

If you would also like to play an active role in shaping the future and at the same time learn the essential tools of the trade in the field of engineering, then we look forward to receiving your application!



Your tasks

Within the project, your tasks will include working independently on the following main topics:

- Researching the state of the art and research and new possibilities in the heating process chain in forging
- Discussion and comparison of suitable measures for optimizing the heating process chain
- Concept development for the implementation of optimization measures for an application case with suitable presentation of alternative courses of action
- Preparation of written documentation of the results (student work) and presentation of the results if necessary

Your tasks will be adapted to your specific knowledge, skills and interests as far as possible.

Your profile

You are studying one of the following subjects:

- Mechanical engineering
- Sustainable Engineering
- Industrial engineering
- or comparable

You are interested in production technology, renewable energies and would like to support companies in implementing climate

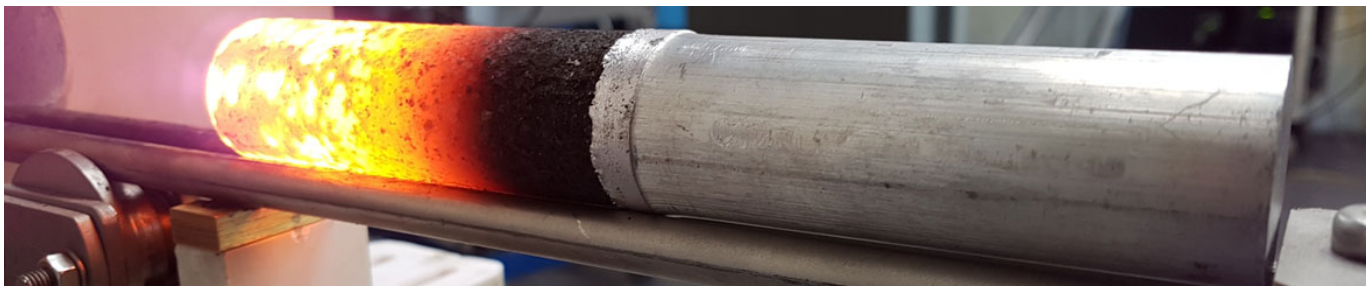
protection measures. You also have good analytical skills and work in a focused and project-oriented manner. You are currently studying and already have basic knowledge of your subject.

Very good knowledge of the Microsoft Office suite (Word, Excel, etc.) is required. Very good written and spoken German is required.

Basic programming skills, preferably in Python, are desirable. Good written and spoken English skills are desirable.

We offer

- friendly working atmosphere
- flat hierarchies
- independent work with flexible working hours
- possibility of mobile working
- Well-equipped workstations on site
- use of the shared, well-equipped kitchen
- Appropriate remuneration (if working as a student or research assistant)
- Possibly longer-term collaboration
- Possible topics for (further) theses



Bitte sende deine aussagekräftige Bewerbung in einer einzigen PDF-Datei an jobs@iph-hannover.de.

Die Bewerbung muss Anschreiben, Lebenslauf sowie Prüfungsleistungen des Studiums / Zeugnisse enthalten.

Contact

Marc Warnecke
Dipl.-Ing.

+49 (0)511 279 76-343

IPH - Institut für Integrierte Produktion Hannover gGmbH
Hollerithallee 6
30419 Hannover

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