

You are a **student of Computer Science** or a similar study course and wish to complement your studies by obtaining some practical experience?

For our department Moving Picture Technologies, location Erlangen, we are looking for

Interns and Student Assistants (m/f)

In the area **Distributed Encoding of Digital Cinema Packages**

Already, most of the cinema screens worldwide have been digitized. At Fraunhofer IIS, we developed software solutions for creating and playing Digital Cinema Packages (DCPs). A 90-minute DCP can become as large as 150 GB. Encoding a film master into the DCP-format often takes over an hour. For the most part, this time is spent on the computationally intensive JPEG-2000 image compression. The goal is to speed up this process by distributing computations across multiple computers. In particular, a concept on how to best incorporate this approach into our existing software shall be formulated and realized.

Your tasks

- Familiarization with the concepts of Distributed Computing (e.g. MPI)
- Specification and development of required extensions to the current software
- Evaluation and documentation

You should (have)

- Study Computer Science or a similar course of studies
- Good knowledge of C++ and network-programming concepts
- Experience with Distributed Computing concepts (e.g. MPI), advantageous
- Experience with Qt-framework, advantageous
- Flexibility and eagerness to work independently with new technologies

We offer

- An open and cooperative working environment
- Very well equipped laboratories
- Collaboration in interesting and innovative projects
- Many opportunities to gather practical experience
- Part-time student assistantship (the average working time is 8-12 hours per week - flexible time and day) and full-time internships.

We are also able to offer you the possibility to write your final thesis together with us in one of the subjects mentioned above. The theses are allocated and carried out according to the rules of the university you are enrolled at. Please confer with a Professor of your choice, who is able to supervise it.

Interested?

Do not hesitate: Join our team and work with us on the Technology of tomorrow!

Reference number: **202492**

Please inform us, how you found out about our job offer.

Fraunhofer-Institut für Integrierte Schaltungen IIS

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For more information about the institute and its products have a look at: www.iis.fraunhofer.de