

We have an immediate and exciting opening in our **Moving Picture Technologies** Department in **Erlangen** for

Interns and Student Assistants (f/m) in the area of distributed rendering of digital cinema movies

You enjoy playing an active part in distributed rendering for digital cinema applications and you always wanted to know what the Fraunhofer scientists are developing in this field? Then this is the right place for you!

Already, most cinema screens worldwide have been digitized. At Fraunhofer IIS, we developed software solutions for the creation and playback of **Digital Cinema Packages (DCPs)**. The rendering of **DCPs** is computationally very expensive but since we are already utilizing all available **CPU** and **GPU** cores in a single computer, it is getting increasingly more difficult to achieve significant speed-ups. Instead, we started to create a prototype for spreading the render process across multiple computers in a local network. This prototype should be further optimized in terms of network performance and load-balancing. Additionally, a concept for collecting and visualizing key performance parameters such as bandwidths, current and peak performance of individual software modules or entire computer nodes should be developed.

Your responsibilities:

You identify the performance bottleneck in the current prototype and support our Moving Picture Technologies Department during the specification and development of optimizations and during quality control, evaluation and documentation.

What we expect from you...

- Currently studying computer science or a related field
- Knowledge of network programming concepts
- First experience with Qt-framework (optional)

What you can expect from us:

- Wide-ranging projects with high practical relevance
- Flexible hours that allow you to balance your studies and on-the-job experience
- An open and friendly work environment
- Extensive professional support from scientific mentors and
- Sufficient opportunity to develop your interests and skills

Now it's your turn!

Send your detailed resume via e-mail to personalmarketing@iis.fraunhofer.de and reference ID number **541042**. And don't forget to tell us how you learned about this opportunity.

Additional information on job openings can be found at: www.iis.fraunhofer.de