DECTRIS is a successful and growing company that develops and manufactures X-ray and electron cameras to spark scientific breakthroughs around the world. While photographic cameras capture visible light, DECTRIS cameras count individual X-ray photons and electrons. Our 100+ employees are located in Switzerland and the United States. At DECTRIS, academic research meets agile industry practices. The company’s roots are deep in the scientific community and our scientists publish new research results every year. At the same time, our engineers, technicians, administrators, and commercial experts work hard to make sure our customers benefit from the latest technologies without delay.

**Analog ASIC Designer (100%)**

**Your Tasks**
- Take responsibility for the specification, design, simulation, layout, validation and characterization of analog and mixed-signal circuits
- Participate in the architecture, design and verification of our X-ray and electron detector modules
- Work together with our research & physics team to optimize the analog frontend within the pixel circuit
- Combine your knowledge in 3D-integration with our expertise's to create cost-effective and innovative solutions for gap less detector modules
- Involve the electronics design team to build up characterization testbed and support the firmware engineers to design the optimal readout sequences
- Assist our production engineering team concerning our ASIC’s

**Your Skills**
- MSc or PhD degree in Electrical Engineering (electronics, microelectronics or related)
- More than 5 years’ experience in analog integrated circuit designs with focus on low power and high speed circuits
- Experience with relevant CAD tools, preferably Cadence Virtuoso
- Proven track record in 3D-technologies is a clear advantage
- Experience in skillful usage of Python to automate measurements and analyze results is an advantage
- Valued team worker with innovative thinking
- Excellent communication skills to interact with project teams
- Fluent in English, German is an advantage

**We Offer**
- A friendly company culture with a passionate team: we are proud that we were able to hold the world record calculating the digits of pi for 3 years!
- A successful and growing high tech company in an international, scientific environment: more than half of the world’s protein structures have been discovered with our detectors!
- A competitive salary and good benefits
- A modern office with A/C, gym, underground parking for cars and bicycles, company cars and e-bikes to borrow, in-house catering, free snacks and coffee
- Support for professional training as well as our non-German speakers’ German studies
- Generous team events

[https://www.dectris.com/career](https://www.dectris.com/career)

**ASIC-Team**

The ASIC design team within the research and development division of Dectris AG designs and characterizes the CMOS readout circuits of our X-ray and electron sensors. We work together with the electronics design team and the detector development. We support the product management to elaborate the requirements for the next generation of high speed and high-resolution detectors. Within technology projects, we contribute our knowledge to make even higher integration possible. We are responsible for the test programs for our chips. We continuously optimize the yield of our complex imaging sensors in close collaboration between the design engineers and test engineers within our team.

The ASIC design team is looking forward to meeting you!