



## Advancing Cryptocurrencies and Blockchain Technology

Do you dislike banks? You should learn about cryptocurrencies. Do you like banks? You should also learn about cryptocurrencies. Bitcoin, Ethereum and other blockchain based systems promise a future of decentralized financial systems and smart contracts. Cryptocurrencies were the first applications of blockchains and are developing rapidly. However the technology is still in its infancy and various problems remain open. Transactions are slow, minting of new currency is running into a natural monopoly, anonymity is mostly limited to pseudonymity, the global transaction rate that can be processed by the network is small and the current protocols prevent efficient mobile implementations. New algorithms and protocols are required and the existing technology must be simplified before a large scale deployment becomes feasible.

Depending on your skills everything is possible, there are theoretical problems, protocol improvements, implementation projects and mobile development. If you are interested in doing work in any of those fields, please get in touch to discuss concrete ideas!

**Requirements:** Interest in any of the listed fields. Depending on the concrete project knowledge of cryptography, programming and mathematics is of advantage.

**Interested? Please contact us for more details!**

### Contacts

- Conrad Burchert: [bconrad@ethz.ch](mailto:bconrad@ethz.ch), ETZ G95

