

## Low frequency exceptions

Organizations are facing an increasing number of transactions of decreasing value. Some of the analytical methods available have difficulties in detecting low frequency exceptions. Examples are financial records for retail, e-commerce or bank transactions. In other cases the number of exceptions is very low with often insufficient data. Traditional machine learning techniques fail for lack of a training set of substantial size. Is you profile econometrics, business analytics, mathematics or similar, and do you want to perform some theoretical and practical research?



## Blockchain

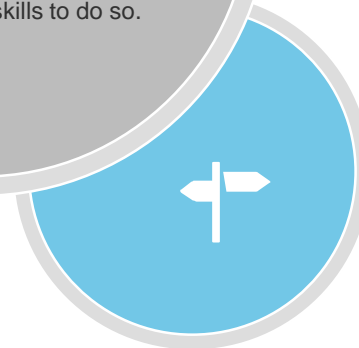
The nature of financial systems are changing as we speak. One of the potential game changers is a digital currency like bitcoins. Blockchains are cryptographic functions used to secure transactions of digital currency. How will blockchains impact the possibilities for detecting and committing financial economic crime? Deloitte is interested in the application and practical issues related to blockchains. Will the widespread use of blockchain require additional types of analytics, can we eliminate certain types of fraud?

Do you have the cryptographic expertise to understand digital currency, are you interested in analytics to detect and prevent financial economic crime? We are looking for students with these skills for an internship or a MSc-graduation.



## Financial Crime Analytics

Do you wish to fight financial crime using your advanced modeling skills? Our Forensic team investigates different forms of crime, and advises clients on how to prevent (financial) crime. Our dedicated Financial Crime Analytics team uses advanced (statistical) modeling skills to do so.



## Connecting the dots

We use and combine several analytic techniques. All these techniques require source data. Deloitte has developed a data connector to common ERP and financial systems. We would like to explore how we can use this connector to explore different forms of financial crime.

Your mission would be to explore the (im)possibilities of the data connector tool in relation to detecting financial crime: fraudulent transactions, account misuse and or bribery. Your profile is Business Analytics, Econometrics, Business Economics, mathematics and statistics or equivalent.

# MSc-graduation and Internship possibilities

## Financial Crime Analytics

Three non-exhaustive possibilities are described above. Please contact Sander Koemans for more information: [skoemans@deloitte.nl](mailto:skoemans@deloitte.nl) or +31-6-82019365

