

# **Description topics internship and M.Sc project within Ernest & Young Financial Services Advisory**

**Utwente coordination: Fons Wijnhoven**

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## **EY Financial Services Advisory**

EY Financial Services Advisory is the group within EY where we have bundled the advisory services for our clients in EMEIA (Europe, Middle East, India & Africa).

EY Financial Services Advisory has a strong global position. The new legislation, tighter competition, new technologies and changing customer needs mean a big change and a growing demand to professional advices and implementation power.

These developments offer advisors in the Netherlands many new opportunities and challenges.

Therefore it is our mission to be the leading partner in strategy implementation which provides the basis for high performing financial services organisations. Supporting organisations in complex transformations (or parts thereof) is the basis from which EY Financial Services Advisory can add much value. Certainly because of our in-depth knowledge in all relevant areas such as actuarial, risk, processes, IT, organisation, governance, culture and skills. We are the partner with external knowledge, skill, experience and drive who actively uses and transfers this in the transformation process. We let the customer be the proud owner of the successful change. Therefore, we can perform as a "business partner" in transformation projects using our specialisms.

## **ITRA FSO**

IT Risk & Assurance FSO (ITRA) is a specialized advisory group of EY FSO Advisory who work on the intersection of business and IT. ITRA is one of the major players in the market (global) when it comes to auditing and advisory services focused on reliability, security and effectiveness of information systems. Focus areas include: IT risk management, information security management, legal hacking, (technical) security architectures, ERP, data quality, data governance, data warehouses and business intelligence.

## **Profile**

You are in the final phase of the college (HBO) or university study Information Management, Computer Science (informatica), Business Intelligence, (technical) Business Administration/Economics, or a similar study with a strong IT component. Furthermore, you are independent, ambitious, critical and a good team player.

After the internship, there is the ability to start working at EY.

## **Topics**

### **Data quality and performance**

Data quality is a hot topic. Through the increasing amounts of available data the possibilities with these data are almost limitless. But the data will only have value once the quality of it is assured. And what impact does data quality have on a firm's performance? Does a higher data quality lead to a better firm performance?

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### **Predictive analytics**

Analytics provide insight in those areas of interest that any firm finds important. Traditional BI systems always had the capability to explain what has happened (the past). Newer systems are increasingly capable of explaining what is happening now (the current) using real time information. But what needs to be in place to describe what the future will bring? Why would firms want to react, if they could proactively act? Many organisations are currently struggling with these challenges and are trying to adapt to future needs. Big Data and predictive analytics are the key to success, but how should a firm make use of the massive amounts of data? What hardware, software, processes and roles need to be in place to ensure success?

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### **Customer centricity**

Organisations are increasingly aware of client demands and are trying to comply with these demands as much as possible by adjusting their internal processes. By knowing their customers, organisations will be able to provide better fitting service offerings. But what does an organisation need in order to facilitate Customer centricity? What are current blocking issues? And how can these be solved?

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### **Competitive advantage through regulatory compliance**

Regulatory demands are changing every year. And in order to be compliant, organisations need to update their data demands on a regular basis. Quite often this includes redesigning current processes and analysing both data and processes in order to deliver new informational areas. Compliance is a must to avoid negative feedback or being fined. But could there also be a positive side? Could organisations reap other benefits being the early adopter?

For information contact Maria Iacob at [m.e.iacob@utwente.nl](mailto:m.e.iacob@utwente.nl)

### **Data Science**

Request for an intern who research reliable data quality for effective decision making. What does the internship hold? Data management within the function "Data Scientist" a relatively new concept, we (EY) would like to look at the practical implementation of this role. The trainee should have a realistic picture of this function and where the function creates customer added value. Also investigate to what extent does the role differ from regular IT function and what role does the Data Scientist encloses in regulatory,

compliance and decision making. Specific research questions: What is the role of the Data Scientist within the (modern) business / IT organization? And how can data management (and visualization) optimize data quality?

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### **Business intelligence strategy**

Financial service organisations are relying more and more on their IT environment and data captured. One way to harness the power of data is the use of business intelligence. Organisations deploy these technologies for everything from their operational reports to strategic dashboards and connect various data sources from different departments in different places.

Our department is interested in the strategies these organisations use to maximize the use of business intelligence. A few of the questions that arise in this topic are: What are the strategies, tooling and governance that organisations are using at the present? What are their expectations for the future? How do they perceive the business intelligence market places?

We offer Master students the opportunity to perform qualitative or quantitative research to help us answer these questions.

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### **Data Analysis within Financial Audit**

Organisations are processing more and more data which can be used to analyse. Our IT-Audit department within EY delivers both IT-advisory work as well as financial audit support for our financial auditors. During the audit a lot of (automated) controls are tested. With the current data analytics tools and possibilities we can change the way of testing controls, and perform more data analysis within our Financial Audit. Therefore we offer Master students the opportunity to perform qualitative or quantitative research and implement a methodology to perform process mining, process analytics and data analytics in the financial sector.

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### **Process optimization by Visualization**

Organisations are working with higher volumes of data in complex organisational processes. Within our department we analyse and structure large volumes of data for our clients. The results are presented in numbers and graphically. These are individual results having a correlation. The current market gives the opportunity and means to present result and connections in advanced (visualized) dashboards.

The questions that arise in this topic are: How can we harness the opportunities of these tools? How can visualization be used in process optimization of financial data like mortgages, payments, etc.? Analysing data, determining a methodology and building dashboards will be part of assignment.

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Location: EY FSO in Amsterdam or The Hague

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