



IBM Smarter University

Brno

OFFERING CATALOGUE 2020

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CATALOGUE IS BEING REGULARY UPDATED

WHY INTERNSHIP @ IBM?

The non-paid Internship program IBM Smarter University Brno opens up the possibility for students to start building their professional life in a well-known international company; it also gives them an insight to a big corporate environment. The intern has a chance to access real projects and to develop himself/herself under the supervision of experienced professionals and mentors who lead the students throughout their stay in the company.

IBM's 4 months period Internship Program is designed to offer students mentoring, training and plenty of practical experience. It is meant to grow a student's potential and shape their career.

WHAT CAN YOU EXPECT?

- Individual support from your own mentor
- Flexible working hours, dependent on your school schedule
- App. 20 working hours per week, 4 months experience*
- Work on a project as an equal member of your department
- Improvement of your English and presentation skills
- Opportunity to attend internal courses & trainings
- Meeting people from all over the world
- Opportunity to build your contacts network
- Be part of multicultural environment
- The internship is not paid

**It can be individually adjusted as per your university request*

GENERAL REQUIREMENTS:

Requirements depend on the department you're assigned to and include but are not limited to:

<p>Adaptability</p> <p>How do you cope with changing demands and stress? Are you flexible? Have you successfully completed several projects with competing deadlines?</p>	<p>Client Focus</p> <p>Can you see a situation from a client's viewpoint, whether that's colleagues or customers? Can you anticipate their needs?</p>	<p>Communication</p> <p>Do you present information clearly, precisely and succinctly? Adapt the way you communicate to your audience? And listen to others?</p>	<p>Creative Problem Solving</p> <p>Do you use ingenuity, supported by logical methods and analysis, to propose solutions? Can you anticipate problems? Do you put forward innovative ideas?</p>
<p>Drive</p> <p>Will you proactively learn new skills – even if they're beyond the scope of your current job? Will you put in the time and energy needed to achieve results?</p>	<p>Passion for IBM</p> <p>Do you know what IBM does and what our most recent achievements are? Are you up to speed with the latest trends in our industry? What are the biggest challenges we face?</p>	<p>Taking Ownership</p> <p>Do you take responsibility for tasks/decisions? And implement decisions with speed? Can you show when you've worked to correct your mistakes?</p>	<p>Teamwork</p> <p>How do you work with others to achieve shared goals? Do you easily build relationships with others? Are you a team player?</p>

All candidates must be active students 18+. The minimum English knowledge is B2.

Additional requirements depend on the concrete project you are applying for; check the positions below.

HOW TO APPLY?

Find out more about the internship opportunities @IBM Client Innovation Centre Brno and choose one of the project below. If interested in a position, apply [here](#) by submitting your application.

Application should contain:

- Curriculum Vitae (CV)
- Full name of the position you are applying for from this catalogue
- Motivation Letter is a plus

You did not find what you are looking for? Or you need more information?

Write us on: students@cz.ibm.com

COMMUNICATION

P1: JUNIOR COMMUNICATION SPECIALIST WITH GRAPHIC DESIGN

Do you want to work on project with a purpose? We are looking for a creative intern who would help to develop our very special internal project - you might not know IBM is also involved in beekeeping, and as you might expect it's about smart tech, IoT and making sense of a data. For this we need a good way how to actually show the data - and as Mr. Watson said - "Good design is a good business". Hence graphic designer is needed.

Preferred Skills:

- Graphic web design skills are a must
- Creativity, self-driven person

Main Benefits:

- You will gain experience while working in a worldwide corporation
- You will work on GUI
- You will get a project management insight
- You will work on a friendly, modern environment that promotes new ideas
- You will work on Mac Device, iPhone



P2: JUNIOR COMMUNICATION SPECIALIST

The aim of this project is to create an effective **internal communication campaign** within IBM Europe to support and increase awareness of **Hybrid Service Technology (HST)**. HST is the backbone of IBM services. It provides monitoring and automation infrastructures to IBM clients and IBM itself (includes Enterprise Operations, Global Technology Integration, Measurements and Integration, Metering and Chargeback, Platform Configuration Design, Software Imaging and Distribution). We need to promote our services and their importance to IBM EU leaders. Final communication strategy will be used to increase overall HST awareness within IBM.

We expect intern/s to create a comprehensive communication plan, its implementation, supervision and final analysis.

Preferred Skills:

- Excellent written and spoken communication skills
- Creativity, self-driven person
- Systematic approach and analytical skills
- IT technologies and environment awareness

Main benefits:

- Student/s get a unique chance to know internal communication tools of the global IT leading company
- Opportunity to be a part of a dynamic working environment



P3: EVENT COORDINATOR BACK-OFFICE

Project description:

IBM Client Innovation Centre Brno 20 years anniversary – Event Management Support (May/June 2021)

What will be your tasks?

- Communication with the team to understand their wants, needs, and special requests for the event
- Be involved in planning and organizing the event in accordance with the preference
- Select the most suitable location or venue; book, prepare, and arrange it for the event
- Design a layout and agenda of the event; create event guides, pamphlets, and any other marketing activities to promote the event traditionally or digitally with the assistance of the team involved
- Attend event to oversee activities and ensure details are handled as planned
- Work with and give guidance to volunteers and staff involved in event planning and execution

- Perform other related duties as may be assigned or requested by clients.

Requirements:

- Self-organized person
- Familiar with digital technologies
- Experience in event organization or management or related work experience is an advantage
- Strong communication skills – written and verbal
- Positive, outgoing and proactive personality
- Negotiation, leadership, and planning skills
- Ability to multi-task, remain calm and work under pressure in a fast paced environment
- Attention to details and good problem solving skills
- Strong interpersonal skills and ability to deal with diverse types of people
- Ability to work effectively as part of a team and also take initiatives when the need arises



DEVELOPMENT

P4: JUNIOR DEVELOPER

We are looking for a developer **to design & develop a web-based tool** which will be utilized to evaluate & measure skills of IT professionals in their respective areas of expertise. The solution will target every professional to evaluate their current skills, gaps they have in their skills-set as well as what they need to do in-order to bring themselves at higher scale. It will also help managers to know skills-growth of his/her team members and helping them to grow.

Scope:

An excellent opportunity is being offered to you if

- You are interested to join world's largest & one of the fastest growing **IT organization in Cloud, Cognitive, Blockchain & Artificial Intelligence area?**

- You are interested to explore & challenge yourself by utilizing your programming skills and work on real-time project?
- You are interested to be part of the team with full of technical professionals, subject matter experts, IT Architects - hear their ideas and develop a working solution?
- You are interested to gain advantage of unlimited learning resources & participate in various type of internal training's?
- You are interested to get the future career opportunities to work with us?

Main benefits:

- Gain and deepen your programming knowledge
- Be a part of young, multi-cultural team with different roles (programmers, projects developers, senior IT developers)
- Work on innovative and creative project
- Get understanding and insight to the service delivery of corporate company
- Opportunity to participate in internal education trainings, conferences and workshops

Preferred Skills:

- Programming skills in one or more areas such as Python/JavaScript/CSS/NodeJS/HTML
- Communication skills in English
- Ability to structure and present information.
- Self-motivated, pro-active, independent
- Decision maker, result oriented
- Willing to learn new things

P5: JUNIOR NETWORK ARCHITECT

Do you want to learn and grow your skills in IT Architecture? Do you want to participate in architectural patterns creation, documentation and validation? Do you want to define the design of the functional

modules to test and see who do they integrate into a real customer business environment? Do you want to discover and learn IBM Method of defining IT Architecture and at the same time you are ready for Open Group Architecture Framework (TOGAF)?

If the answer to the questions above is yes, and you are possessing the skills detailed in requirements section below, we are inviting you to join us and take on this IBM internship.

Main benefits:

- As a junior architect, you will work with Meraki SDN solution team to understand, define and document various types of requirements for SDN solution.
- You will learn and contribute to defining architectural points of view associated with the solution.
- You will learn how to create architectural patterns to address functional requirements associated with use cases implemented for IT architecture.
- You will understand how IT Architect selects and fulfills various other requirements associated with the proposed solution.
- You will learn modeling technics.
- Overall, you will learn what IT Architecture profession is and what the role of the IT Architect is.

Requirements:

- Minimum technical skills on regular networking technologies and protocols (CCNA level).
- Python scripting are not mandatory but will be a plus.
- Analytical thinking.
- Good verbal and written communication skills in English language.



DATA ANALYSIS MAINFRAME

P6: DATA ANALYST – MAINFRAME DATABASES PROJECTS

Do you like to search patterns? You prefer to dig into the details? That is great! Data is new natural resource and we have one decade of data (alert handling, issue handling) within several mainframe databases. We would like to see new patterns, new visualisation of data, most frequent words, hidden connection between data ... In order to do that we are looking for students, who would use IBM Watson data science tool and give us new insight to our data.

Preferred skills:

- basic understanding of databases
- willingness to learn data analytics approach

Main benefits:

- You will have access to database with decades of data
- You will work on a friendly, modern environment which promotes new ideas
- Opportunity to participate in internal education trainings, conferences and workshops

You can get Z experience in the following projects:

P6.1 Data Analytics - Machine learning prediction

We are collecting data about performance (CPU consumption) of our MF system(s) . We have a lot of historical data from past. Idea is to develop model & script, which will predict, based on historical data, future CPU consumption.

P6.2 Data Analytics - Data correlation

We have various data about MF machines CPU, Batch, CICS, Storage etc. Idea is to experiment how those data are linked (or not linked?). How increase/decrease of one data area will affect rest of them. This project would be highly about experiments.

P6.3 Data Analytics - Abnormality detection

This would be based on detection of abnormalities within data of CICS transactions*. There are a lot of transactions per day as we have data about CPU consumption, Reponse time and Number of transaction. We would like to develop automatic detection of abnormalities within those data. Again based on historical data.

*CICS transaction means for example 1 payment by credit card or order of some good etc.

P6.4 New Knowledgebase Tool

We have a historical knowledge base. Due to technical sunset the idea is to develop brand new knowledgebase tool, following latest technical trends. 2 developers would help you and cooperate with you. Task would be to do architectural design, prepare backend (SQL DB) and even frontend, using existing frameworks. All of those task following DevOps and Agile principle.

P6.5 Robotic Process Automation

Due to missing API, tool compability we would like to develop Robotic process automation via scripts to take data from one tool (or excel) and fill them via web form to second tool. Script / solution should be adjustable and easy to use for non-technical people as it will be used mainly by them.



PROGRAMMING

P7: ANSIBLE PROJECT

IBM is looking for interns to help it with its onboarding to Ansible. Ansible is a world renowned product from Red Hat designed to allow automation of all administration tasks from event management, to server build, to patching and scanning. While this is an exciting time for IBM and its partners, the challenge remains to transfer, create YAML playbooks for the new Ansible set up. We are looking for eager programmers with experience **in Python or Yaml**, who will be ready to either translate scripts into playbook format, or work with our support teams to create new playbooks to automate based on clients needs.

This is an opportunity to work on one of the worlds leading automation products, with some of the worlds largest customers and infrastructures to automate the way we do IT today. This project **can be for up to 6 students.**

Are you ready?

Preferred skills:

- experience in Python or Yaml
- willingness to learn and work independently



DATA ADMINISTRATION

P8: DATA PRIVACY OFFICE SUPPORT

Data privacy office needs to develop and set new Data Privacy Database and informational and promotional websites on IBM internal communication tools. A student would support this 2 areas and the support team with data management and transfer into the new environments. The technical skills are not required, experience with web pages creation, presentation skills (creation of presentations) are welcomed.

Student will learn the administration back office of the international company, will learn about the GDPR, data privacy management and it's applicability in IBM, full employee's PI/SPI handling, end to end activity.



P9: EXCEL MASTER

Our teams care about compliance and security of customer's systems. We are group of people who like to have a fun but also enjoy and improve our work. That's why we need you!

→ **Are you an Excel Master?**

→ **Do you know how to create a macro or how to do some SQL scripting?**

That's perfect!

We look for a person whom is detail oriented as goal of the project is to create an universal workload input/output data storage for more efficient data tracking/managing and improvement of workload flow by combining all current Health Check sub-teams reporting. Guide of the project will be your mentor who will help you to understand our way of work. Regular checks and brainstorming will be in place to support you as much as possible. So if you like data, come and join us! :)

THANK YOU!

