



BRAINNEST

Python Developer

Industry Training

by Brainnest



We believe...

We believe that theoretical education and industry training should be together more responsive to real market needs. Yet we are still noticing a growing demand for under-graduates and fresh graduates to get appropriate business training and an excellent opportunity to be part of the business world, work on industry tasks and projects, and practically learn how things work

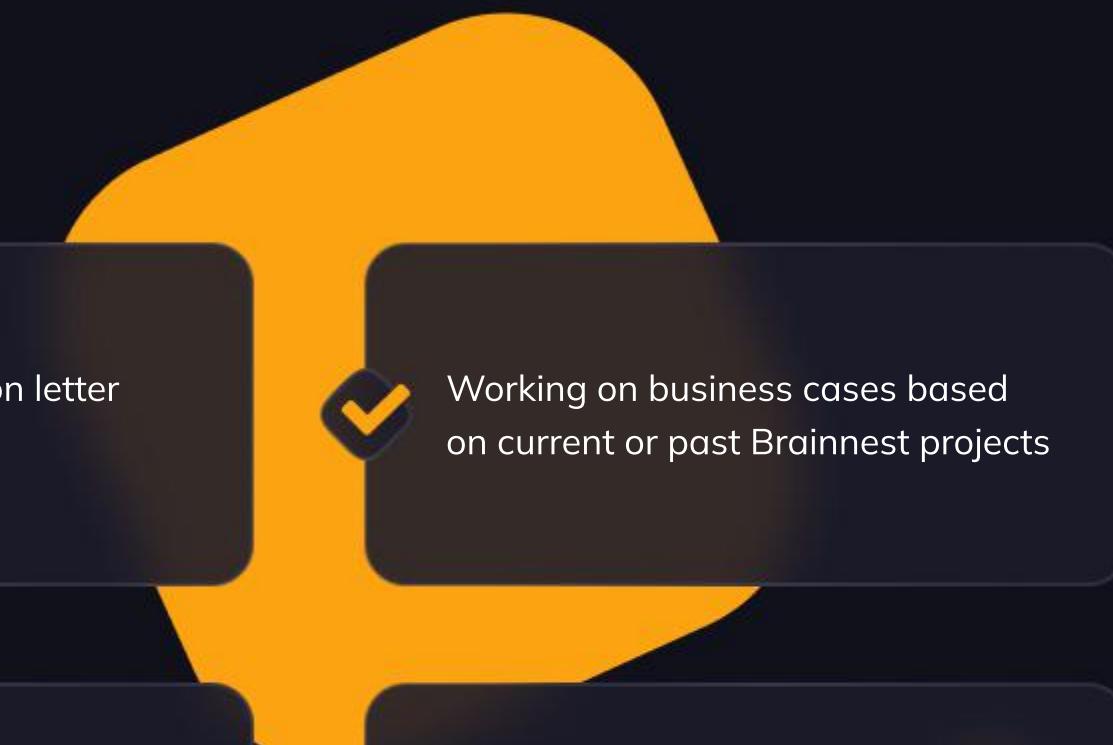
in the labor market. Because of that, Brainnest has decided to allow undergraduates and fresh graduates to have this valuable opportunity through this program. The program aims at enabling the participants to work on business projects, get proper guidance, and learn practical concepts rather than just theoretical concepts.



BRAINNEST

What benefits will you gain?

Participants will receive the best possible practical training with the prospects of a job. This is the purpose of the whole program. Some of the benefits you will gain from this practicum program are listed below:

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- Priority to be selected for a full-time, part-time, or contractor position at Brainnest or the companies we work with (90% of our recruitments are internal)
 - Business certificate from Brainnest – German consulting company
 - Reference/recommendation letter from your training tutor
 - Working on business cases based on current or past Brainnest projects
 - Lectures given by experienced industry professionals
 - Close supervision and orientation from your mentor
 - Working an average of one to two hours per day with a flexible schedule
 - Fully remote positions with access to online tools and platforms
 - Unlocking your potentials and getting prepared to be hired right away
 - Professional business training, guidance, and experience
 - Having your work criticized, assessed, and corrected
 - Professional projects experience to put on your CV

About

Brainnest



Bremen, Germany

The business management and training company headquartered in Bremen, Germany

We are a success-driven firm that provides management advisory and contracting services customized to help companies from different industries with business management problems. Brainnest runs, leads, and manages complex projects and initiatives. We have begun from scratch when a network of professionals, Ph.D. holders, and highly skilled personnel bring to a business table their practical and academic years of experience to form up a concrete blueprint on which the company has been designed.

Since 2020, we offer a combination of expertise, proficiency, and commitment leveraging our deep industry experience, along with using analytical rigor to drive outstanding results for businesses. We proudly provide topclass consulting and training services for a wide range of industries around the world. A well-equipped team, advanced tools, and modern methodologies are some of what we correctly utilize to offer our clients what makes them the best in their fields.

Throughout the Brainnest's program, you will find out about:

-  The fundamentals of Python programming, including reading and writing basic programs, the syntax of the language, and how coding works - this foundation will prepare you for the rest of the program and give you a solid understanding of the language
 -  Socket programming and its use in networking to communicate between devices
 -  Python's built-in data structures - lists, tuples, sets, and dictionaries, and how to think algorithmically and become a problem-solving machine through challenges throughout the course
 -  Task automation - automating tasks and making your life easier through pattern matching, working with files, debugging, web scraping, task scheduling, and emailing
 -  The opportunity to see the whole process of writing and using security tools, from start to finish, giving you a well-rounded education in cybersecurity
 -  Networking - building networking tools, getting into socket programming, and starting network automation. Making use of a machine without any tools or an internet connection by writing a few simple lines of code
 -  Cybersecurity - writing essential security tools such as netcad or sniffer, as well as offensive tools to compromise networks. The importance of writing such tools yourself rather than relying on those available online, and seeing attacks demonstrated in their entirety
 -  Using libraries such as paramiko or socket to build networking tools and perform network automation
 -  The importance of learning how to make use of a machine without any tools or an internet connection by writing a few simple lines of code, as it can be useful in situations where access to tools or the internet is limited
 -  The demonstration of attacks in their entirety, giving you a thorough understanding of how they work and how to defend against them
 -  The ability to develop your skills in thinking algorithmically and becoming a problem-solving machine by completing various challenges throughout the program
- ... and much more!

About the Brainnest Tutors

Arsalan



Arsalan is a highly skilled and experienced Cisco Certified Network Engineer with over four years of experience in the IT industry. He has demonstrated expertise in network security, configuration, and troubleshooting, as well as programming in Python, C++, and PostgreSQL. Arsalan is also proficient in Linux and Windows administration. In addition to his technical skills, he is known for his perseverance, patience, and ethics. He is an accomplished ethical hacker, ranked among the top 1% on TryHackMe.com, and has consistently been ranked as one of the top hackers in Turkey.

Arsalan has a strong passion for helping others and has a natural ability to break down complex technical concepts in a way that is easy to understand. He is a patient and approachable tutor, always willing to go the extra mile to ensure that his students fully grasp the material. In addition to his work in the IT industry, Arsalan has also served as a teaching assistant at his university, where he has helped students learn about networking and cybersecurity.

Arsalan has worked on a variety of complex network infrastructure projects, including the deployment of large-scale enterprise networks for leading companies. He has a strong reputation within the IT community and is often sought out for his technical expertise.

Outside of his professional pursuits, Arsalan is a dedicated martial artist, with over ten years of experience in the sport. He has learned the value of determination and resilience through his participation in fights, and takes pride in the opportunity to share his knowledge and make a positive impact on the IT community and society as a whole. Arsalan is passionate about technology and is constantly seeking out opportunities to learn and stay current on the latest developments in the field. His curiosity and drive to continuously improve have no doubt contributed to his success as a professional in the IT industry.

Andreas



Andreas is a highly accomplished data scientist and machine learning engineer with a diverse set of skills and a proven track record of success. He holds a Bachelor's degree in mathematics from the University of Birmingham and a Master's degree in data analytics from the University of Warwick, providing a solid foundation in the field. In addition to his academic achievements, Andreas has experience as a tutor, teaching mathematics and Python classes to students, which has assisted in developing strong communication and mentorship skills.

Outside of the classroom, Andreas is a well-rounded individual with a passion for sports and fitness. He is an avid football and tennis player, and can often be found at the gym or traveling to new places. He has also served in the army for 14 months in Cyprus, which has instilled in him a strong sense of discipline, leadership and teamwork.

Professional achievements:

- True Python expert, particularly in building machine learning models
- Created an innovative chatbot that received positive feedback from users
- Has a wealth of experience in statistical analysis using Python
- Worked in an insurance company as a data scientist, responsible for determining client eligibility for insurance

Has worked on a variety of projects, including:

- GPS spoofing location detection
- Image classification
- Sentiment classification for tweets
- Time series classification for Bitcoin prediction
- Dissertation on maximizing return in the casino game blackjack

Currently, Andreas works as a machine learning engineer at a research company, where he has worked on chatbot creation using NLP tools in Python, as well as GPS spoofing detection. He has also supervised new team members in understanding specific algorithms such as neural networks, and given seminars on basic concepts of machine learning approaches using the Python programming language.

In addition to his work experience, Andreas also acts as a tutor for undergraduate students studying BSc mathematics, helping them understand statistical methods and applied statistics. He is well-versed in various machine learning libraries such as pandas, numpy, scikit-learn, TensorFlow, Keras, PyTorch, and matplotlib, and continues to improve his skills through ongoing coursework. He is a confident communicator and collaborator, able to articulate complex concepts in an easy-to-understand manner. His ability to work well under pressure, while remaining calm and focused, has helped him to excel in his field. Andreas is an experienced, skilled, and dedicated professional who is committed to achieving success in all of his endeavors.

Program Calendar

The training program consists of four weeks, with four parts of a project.

Each part will be introduced on Tuesday and reviewed on Monday.

start on
4 > **1**
April May

You can choose whether you want to be in
Group A (starts at 9 a.m.)
Group B (starts at 7 p.m.)

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 The hours are given in German local time

Tuesday

April 4

Program Kick Off
+ Concept insights
+ Project [1] details

Group A	Group B
9:00 – 11:30 a.m.	7:00 – 9:30 p.m.

April 11

Concept insights
+ Project [2] details

Group A	Group B
9:00 – 11:30 a.m.	7:00 – 9:30 p.m.

April 18

Concept insights
+ Project [3] details

Group A	Group B
9:00 – 11:30 a.m.	7:00 – 9:30 p.m.

April 25

Concept insights
+ Project [4] details

Group A	Group B
9:00 – 11:30 a.m.	7:00 – 9:30 p.m.

Wednesday — Sunday

April 5 – April 9

Work on the project



1–2h / day

Flexible hours

Teamwork

April 12 – April 16

Work on the project



1–2h / day

Flexible hours

Teamwork

April 19 – April 23

Work on the project



1–2h / day

Flexible hours

Teamwork

April 26 – April 30

Work on the project



1–2h / day

Flexible hours

Teamwork

Monday

April 10

Project [1] review
+ Assessment session

Group A	Group B
9:00 – 11:30 a.m.	7:00 – 9:30 p.m.

April 17

Project [2] review
+ Assessment session

Group A	Group B
9:00 – 11:30 a.m.	7:00 – 9:30 p.m.

April 24

Project [3] review
+ Assessment session

Group A	Group B
9:00 – 11:30 a.m.	7:00 – 9:30 p.m.

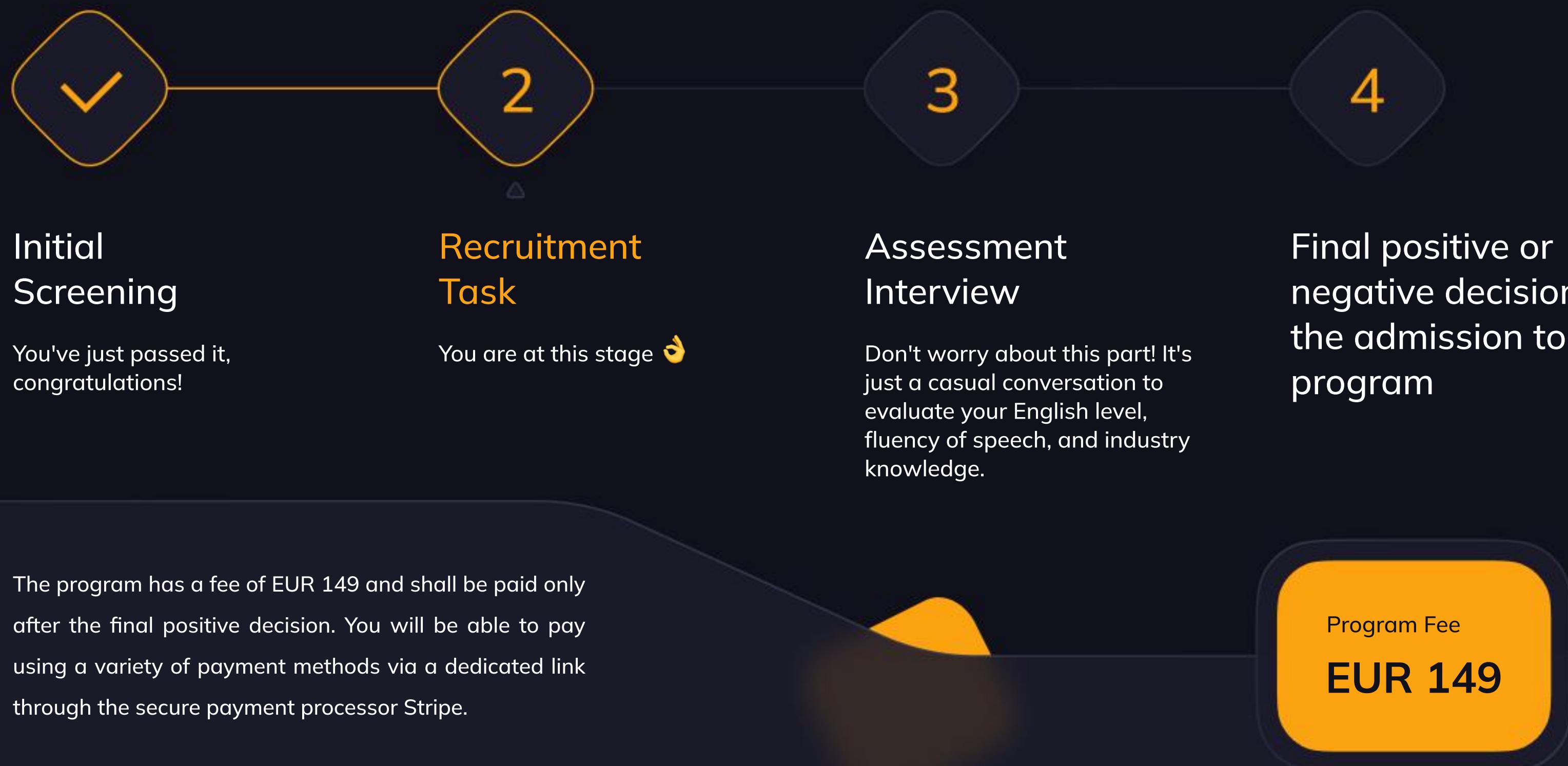
May 1

Project [4] review
+ Assessment session
+ End of the program

Group A	Group B
9:00 – 11:30 a.m.	7:00 – 9:30 p.m.

Admission process

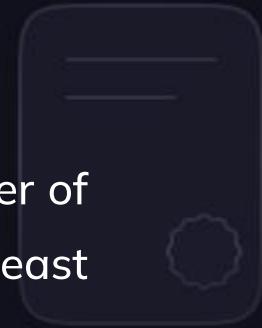
There are four admission stages:



Program Conditions

90%

To receive the certificate and letter of reference, you must attend at least 90% of the entire program.



10%

Absences without a valid excuse should count for no more than 10% of the entire program.

10th

Qualification Task:

1 What is the difference between programming and scripting?

2 Why would you like to work as a Python Developer?

Frequently Asked Questions

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What is the interview about?

The 20-minute interview is designed for level-assessment purposes. In addition, we will tell you more about our company, team, instructors, program structure, and program content. The interview is also designed to assess your interest and know more about your educational background and plans.

Once I am enrolled in this program, can I add the position, your company name, and the direct manager's name to my LinkedIn profile?

Yes, definitely. Once you are registered, you are welcome to add your position, our company's name, and direct manager to your LinkedIn profile or any other social media profiles.

What kind of projects will I work on during the program?

You will work on business cases based on current or past Brainnest projects. You will have the opportunity to discover the most important aspects of any professional project.

Can I know more about the instructors and managers of this program?

The managers and instructors who lead our programs are carefully selected from the top of their respective fields all around the world. These professionals all have first-hand experience in their industries, having spent years working alongside the most respected and sought-after companies in the world. Unfortunately, we can't provide their full names at this stage due to privacy reasons.

Is this a regular internship or just a training program?

This intensive one-month training program encompasses tasks and responsibilities that you might find in a regular internship and directions, lectures, and practicum projects that you might find in a regular training program.

Do I have to be in Germany or travel to Germany to attend the program?

You do not have to be in Germany or travel to Germany to attend the program. The program can be fully attended remotely through our online platforms and systems.

Why is there a fee that I should pay to attend the program?

This is a one-month intensive training program offered by Brainnest that leads the theoretical and practical part. Besides the experience, training, connections, and exposure, this program brings a list of benefits that you might find very interesting and beneficial. The program has a fee because Brainnest provides top-level instructors who explain the theoretical and practical concepts that you will be able to apply smoothly and professionally. Moreover, Brainnest does not use the trainees' work during the program for profit-making purposes.

Is this program fully remote?

Yes. The training program is led from Germany, but takes place and is attended by each member remotely through our online platforms and systems.

Frequently Asked Questions

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What if I have to skip a session for a specific reason?

We understand that you might need exceptionally to skip some sessions for a valid reason. In this case, we will make sure to send you the recording of the session. You may also follow up with your instructor or direct manager for questions or to have a one-to-one recap meeting.

What kind of jobs might you offer me after completing the program?

It depends on the skill set you have. It can be an analyst, managerial, or another position. It also depends on the needs of the companies that fall under our management. The job might be a remote job or an office job.

What are the criteria for selecting those who might be offered a job?

We assess several factors to select the members whom we will offer a job. These factors are mainly performance, skill set, and our company needs and circumstances.

What are the chances that I will be selected to work for your company after completing the program?

We always try to select a couple of trainees and offer them a permanent position. It depends on several factors considered at the end of the program. These factors include the performance of the members, our needs at the company, and the prevailing circumstances.

What do you mean by flexible timing from Wednesday to Sunday?

Wednesday to Sunday of each week in the program, you will have to work with your focus group and/or individually on several projects that will require a couple of hours each day. It is up to you (and your focus group) to decide how and when you will spend these hours.

Are the projects that I will be working on during the program related to one company or different companies?

They might be related to one company, several companies, or even a client.

Is it possible to waive the fee or get a scholarship from Brainnest?

We are very sorry, but currently, we do not offer any subsidies.

Am I going to have direct contact with your clients while working on the projects?

No. We do not ask you to work directly with any of our clients during this training program.

If I was offered a job, what is the process after that?

It depends on the type of offer we give you. Each offer has specific processes and procedures that will be discussed thoroughly with you at that time.

Contact Information

If you have any questions,
do not hesitate to contact us!

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