



Biodata analysis

online postgraduate certificate program

at Pázmány Péter Catholic University

Faculty of Information Technology and Bionics

Biodata analysis is a unique, two-semester fully online program in English, provided by **PPCU** and **HiDucator Ltd.**

Advances in molecular techniques in the past decades lead to an ever growing amount of diverse data in the field of biology and medicine.

Processing, analysis and interpretation of these data requires unique knowledge and skills. Currently there is a high demand for specialists capable of handling these data.

The Biodata analysis program addresses these needs providing training in genomics, proteomics and related areas and with emphasis on data interpretation in the context of molecular structure and function.

Our practice-oriented training offers the acquisition of valuable, readily applicable skills and knowledge to even those with prior experience in bioinformatics.

The online program provides high flexibility making it possible to complete it efficiently and comfortably beside work and from anywhere in the world. We especially recommend our program to employees of companies specialized in biomedical data analysis, molecular diagnostics and related fields.

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The one-year, 60-credit program includes courses on online databases, biostatistics, data analysis with R from basics to high-throughput applications, programming in Python as well as structural bioinformatics. In the second semester there are a number of optional courses available like enrichment and heatmap analysis, Java programming, BioPython and advanced structural bioinformatics. The program concludes with a supervised thesis project and a defense.

The program involves teachers from PPCU with substantial teaching experience and an active research record in diverse areas of computational biology. The courses are offered in collaboration with HiDucator, an expert in online bioinformatics education.

Successful completion of the program provides biological data analysis skills most sought-after in biomedical research and development including molecular diagnostics, treatment effect analysis at the molecular level, and all aspects of biotechnology applications.

Entry requirement for the program is a **BSc diploma** in molecular biology or a related field.

The cost of the program is **2,000,000 HUF** (approx. 6,000 €)

Find out more at
www.itk.ppke.hu/en

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