



## Dr. Arijit Nath

 Nagykanizsa, Hungary

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 [https://www.researchgate.net/profile/Arijit\\_Nath](https://www.researchgate.net/profile/Arijit_Nath)

Sex Male | Date of birth 07/05/1986 | Nationality Indian

## WORK EXPERIENCE

- April 3, 2018 to till now [Visiting Teaching and Research assistant](#)  
**Teaching assignment:** Theoretical subjects offered in MSc in Food Process Engineering  
**Laboratory/ Practical work assignment:** Thesis supervision in Bachelor and Master students in Department of Food Engineering and Department of Bioengineering  
(Detailed information in Organisational / managerial skills section)  
**Working place:** Department of Food Engineering, Szent István University, Budapest, Hungary
- April 1, 2019 – till now [Chemical Engineer in the project GINOP-2.3.2-15-2016-00016, supported by Széchenyi 2020](#)  
**Research Topic:** Micropollutant-contaminated surface- and pharmaceutical-water treatment through biochemical route  
**Working place:** Soós Ernő Water Technology Research and Development Centre, Faculty of Engineering, University of Pannonia, Nagykanizsa, Hungary
- November 1, 2018 to January 31, 2019 [Chemical engineer in the project GINOP-2.2.1-15-2016- 00023, supported by Széchenyi 2020](#)  
**Research Topic:** Encapsulation of pharmaceuticals  
**Working place:** Research Institute of Biomolecular and Chemical Engineering, University of Pannonia, Veszprém, Hungary
- July 3, 2017 - October 31, 2018 [Environmental Engineer in the project GINOP-2.2.1-15-2016- 00029, supported by Széchenyi 2020](#)  
**Research Topic:** Thermal water treatment through membrane route  
**Working place:** Department of Food Engineering, Faculty of Food Science, Szent István University, Budapest associated with Soós Ernő Water Technology Research and Development Centre, Faculty of Engineering, University of Pannonia, Nagykanizsa, Hungary
- October 3, 2016 - June 30, 2017 [Postdoctoral Research Fellow, Project sponsored by Hungarian State Board fellowship](#)  
**Research Topic:** Development of Low-calorie and Hypo-allergenic Probiotic Yogurt by Membrane- and Enzymatic- route  
**Working place:** Department of Food Engineering and Department of Refrigeration and Livestock Products Technology, Faculty of Food Science, Szent István University, Budapest, Hungary
- November 30, 2015 - September 28, 2016 [Postdoctoral Research Fellow, Project sponsored by Erasmus Mundus Intact grant](#)  
**Research Topic:** Microbial Production of Rhamnolipid by Integrated Process (Fermenter attached with Adsorption column)  
**Working place:** Department of Biochemical and Chemical Engineering, Technical University of Dortmund, Dortmund, Germany
- July 1, 2015 - August [Postdoctoral Research Fellow, Project sponsored by Marie-Curie Action: 'Career](#)

- 31, 2015 **Integration Grants' (FP7-PEOPLE-2012-CIG)**  
**Research Topic:** Development of low-calorie beverages with prebiotic properties from cheap and abundant feed stocks  
**Working place:** Department of Food Engineering, Faculty of Food Science, Corvinus University (Former name)/ Szent István University (Present name), Budapest, Hungary
- March 3, 2015 - June 30, 2015 & September, 1, 2015 – October, 31, 2015 **Postdoctoral Research Fellow, Project sponsored by Hungarian State Board fellowship**  
**Research Topic:** Synthesis of Bioactive peptide from Defatted Soybean oil meal by Enzymatic Membrane Bioreactor  
**Working place:** Department of Food Engineering, Faculty of Food Science, Szent István University, Budapest (Present name), Corvinus University, Budapest (Former name), Hungary
- August 1, 2014 - February 27, 2015 **Postdoctoral Research Fellow**  
**Research Topic:** Valorization of Agricultural and Food wastes  
**Working place:** Department of Chemical Engineering, Jadavpur University, Kolkata, India
- January, 2014 – May, 2014 **Technical assistant/ Laboratory demonstrator in Heat and Mass transfer Laboratory for undergraduate degree course**  
**Working place:** Department of Chemical Engineering, Jadavpur University, Kolkata, India
- March, 2012 – September, 2014 **Senior research fellow, Project sponsored by Council of Scientific and Industrial Research (CSIR), New Delhi, India**  
 Department of Chemical Engineering, Jadavpur University, India  
**Research Topic:** Fermentative Production and Membrane based Purification of  $\beta$ -galactosidase from Milk Whey-based Lactic Acid Bacteria  
**Working place:** Department of Chemical Engineering, Jadavpur University, Kolkata, India
- March, 2010 – April, 2012 **Project fellow, Fellowship and Project sponsored by University Grants Commission (UGC), New Delhi, India**  
**Research Topic:** Production and Purification of  $\beta$ -galactosidase from Milk Whey-based Lactic Acid Bacteria using Fermentation and Membrane-based Separation Techniques  
**Working place:** Department of Chemical Engineering, Jadavpur University, Kolkata, India

## EDUCATION AND TRAINING

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- 2008 - 2014 **Doctorate of Philosophy (PhD in Engineering) from Department of Chemical Engineering, Jadavpur University, Kolkata, India**  
**Title of Thesis:** Studies on Microbial Production and Membrane Based Purification of  $\beta$ -galactosidase from Casein Whey  
**Supervisor:** Prof. (Dr.) C. Bhattacharya and Prof. (Dr.) R. Chowdhury, Department of Chemical Engineering, Jadavpur University, Kolkata, India
- May 29, 2014 - July 25, 2014 **Summer Internship in Laboratory of Transport Phenomena and Biotechnology, Department of Computer Engineering, Modelling, Electronics and Systems, University of Calabria, Cosenza, Italy**  
**Title of Project:** Prediction of Biogas production and Microbe-Microbe interaction in Anaerobic Biogas digester – Experimental, Modelling and Optimization  
**Working place:** Laboratory of Transport Phenomena and Biotechnology,

Department of Computer Engineering, Modelling, Electronics and Systems,  
University of Calabria, Cosenza, Italy

2007 (4 months) **Student practice work**  
**Title of Project:** Separation of Ovalbumin from Chicken egg white by Ultrafiltration  
**Working place:** Department of Chemical Engineering, Jadavpur University, Kolkata, India

2006 (6 months) **Student practice work**  
**Title of Project:** Studies on Separation characteristics during Ultrafiltration of Casein Whey in Cross flow and Rotary disc membrane module  
**Working place:** Department of Chemical Engineering, Jadavpur University, Kolkata, India

2006 (3 months) **Student practice work**  
**Title of Project:** Studies on the Performance of Biodiesel Production from different Lipid sources via Base-catalyzed Transesterification  
**Working place:** Department of Chemical Engineering, Haldia Institute of Technology, Haldia, India

December 26, 2005 - January 10, 2006 **Industrial training/ practice**  
**Internship topic:** Water Treatment and Fluid Flow  
**Working place:** Indira Gandhi Water Treatment Plant under the Kolkata Municipality Corporation, Kolkata, India

June 20, 2005 - July 20, 2005 **Industrial training/ practice**  
**Internship topic:** Herbal Medicine  
**Working place:** Emami Pvt. Limited, 13 B. T. Road, Kolkata, India

PERSONAL SKILLS

Language skill	UNDERSTANDING		SPEAKING		WRITING
	English	English	English	English	English
	C1	C1	C1	C1	C1
	Hungarian	Hungarian	Hungarian	Hungarian	Hungarian
	A2	A2	A2	A2	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**Computer skills**

1. Strong proficiency in Windows, Microsoft office
2. Practical knowledge in C Programming
3. Strong proficiency in MATLAB Software

ADDITIONAL INFORMATION

**Publication** Scopus author id: 57195151746, Total citation: 197, H-index: 7

**Achievement**

1. Received 'The Best Speaker award in International Section' in Water and Wastewater Treatment in the Industry 2015, October 28, 2015, Nagykanizsa, Hungary
2. Paper has been awarded for 'Sir Ganga Ram Memorial Prize' in 28th Indian Engineering Congress, December 20, 2013, Chennai, India
3. Received best paper award in 3rd International Conference on Advances in Biotechnology and Pharmaceutical Sciences (ICABPS 2013), January 8-9,

2013, Kuala Lumpur, Malaysia

**Research interest/  
Research activities**

Fermentation technology, Enzymatic reaction, Bioreactor design, Probiotics and Prebiotics, Allergy-free food product, Food waste valorization, Membrane separation process, Membrane integrated bioreactor, Environmental benign process, Mathematical modelling of bioprocess

**Laboratory skill**

1. Isolations of microbial consortia from natural sources and their complete biochemical characterization
2. Well experienced in microbial culture handling and microbiological techniques
3. Independently handle fermenter (working vol. 2 L), enzyme immobilized packed bed reactor, trickle bed reactor, membrane separation unit (both crossflow and dead-end module), membrane associated bioreactor (membrane is associated internally or externally), heat exchanger, distillation column, adsorption column
4. Strong practical knowledge on different biomolecules (enzyme, carbohydrate, protein, antioxidant, hormone etc.) assay by spectrophotometer and High-performance liquid chromatography (HPLC), enzyme-linked immunosorbent assay (ELISA)
5. Well conversant with the different enzymes and microbe immobilization techniques
6. Familiar with sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE) protein gel electrophoresis
7. Well experienced with DNA isolation from bacterial cell, DNA gel electrophoresis and transformation of plasmid DNA

**Workshop participated**

1. 7 Days Hands-on 'Workshop on Human/ Cancer Cell Culture Techniques and MTCC assay', organized by International Centre for Stem Cells, Cancer and Biotechnology (ICSCCB), Pune, India, September 1 - 7, 2014
2. 5 Days Hands-on 'Workshop on Molecular Biotechnology and Bioinformatics', organized by International Centre for Stem Cells, Cancer and Biotechnology (ICSCCB), Pune, India, January 14 - 18, 2013
3. Short term course on 'Computational Biology, Bioinformatics & Their application to Healthcare', organized by the Department of Computer Science & Engineering, Indian Institute of Technology (IIT) Kharagpur, Kharagpur, India, October 28 - November 1, 2013
4. 2 days National Workshop on 'Environmental Biotechnology & Sustainability (EBTS 2013)', organized by National Institute of Technology (NIT) Warangal, Warangal, India, October 25 - 26, 2013
5. Short term training course on 'Analysis of Drug by HPLC', organized by Bioequivalence Study Centre, Department of Pharmaceutical Technology, Jadavpur University, Kolkata, India, December, 2012.
6. International workshop on 'Recent Advancement in Membranes for Liquid & Gas Filtration' organized by CSIR – Central Glass & Ceramic Research Institute (CGCRI), Kolkata, India, December 27, 2012
7. 2ND Indo - Uk Workshop on 'Biomicrofluidics and Micro - scale Bioengineering' , organized by Jadavpur University, India, December 9, 2012

**Extracurricular activities**

Painting and to fill empty canvases with colours

**Sports and Games**

Hiking, Running, Swimming

I hereby declared that all the information provided here by me are correct to the best of my knowledge.