

BIRAC Innovation Fellowships Qualification & Eligibility

BIRAC Innovation Fellowships are highly competitive and prestigious. Under each University Innovation Clusters there are two Post-Doctoral and four Post Masters position.

Stipend / Fellowship (consolidated)

Post-doctoral = Rs 50,000 per month

Post Masters = Rs 30,000 per month.

Duration of Fellowships:

Both Post-Doctoral and Post-Masters fellowships are for two years extendable to one more year depending on the progress of the project and decision of the technical committee.

The University Innovation Clusters established at the five Universities have their broad scientific areas under which BIRAC Innovation Fellows will be selected. The qualification and eligibility of each UIC has been mentioned below.

Who can apply?

BIRAC along with five UICs invites research proposals from:

- Applicants who have completed their Master/ Ph.D. on and after 1st January 2014 for Post Masters and Post-Doctoral BIRAC Innovation Fellowships

Applicants will have to submit an online application in the prescribed format. Each application will be reviewed by an expert committee at each UIC, which applicant has chosen. Applications will be identified on the identified criteria. Selected applicants will be called for a detailed project presentation and personal interview in front of an expert committee for final selection of the BIRAC Innovation Fellows.

Mere fulfilling the eligibility criterion does not entitle applicants to be called for interview.

Anna University- UIC Innovation Fellowships

S. No	Broad area	Number & type of fellowship*	Qualification & Eligibility
1	Healthcare Diagnostics	Post Doc-1	<p>Essential: PhD in areas of Biotechnology/Biomedical Engineering / Life Science / Clinical medicines / Bio chemistry / Bio Physics/ Pharmaceutical technology & allied disciplines .</p> <p>Eligibility: PhD Thesis should be related to healthcare with laboratory validation of diagnostic method or tool/ Candidates with industrial experience in the field of proposed work / people sponsored by the industry.</p>
		Post Master's-2	<p>Essential: Masters in areas of Biotechnology/Biomedical Engineering / Life Science / Clinical medicines / Bio chemistry / Bio Physics/ Pharmaceutical technology & allied disciplines</p> <p>Eligibility: Master Thesis should be related to healthcare with preliminary experimental evidence of commercially viable diagnostic lead/ Candidates with industrial experience in the field of proposed work / people sponsored by the industry.</p>
2	Bioprocess Technology	Post Doc-1	<p>Essential: PhD in areas of Biotechnology/Chemical Engineering / Life Science / Chemistry / Food Technology / Pharmaceuticals & allied disciplines..</p> <p>Eligibility: PhD Thesis should be related to proof of concept in Bioprocess of Commercially important intermediate / final product/Candidates with industrial experience in the field of proposed work / people sponsored by the industry.</p>
		Post Master's-2	<p>Essential: Masters in areas of Biotechnology/Chemical Engineering / Life Science / Chemistry / Food Technology/ Pharmaceutical technology & allied disciplines.</p> <p>Eligibility: Master Thesis should be based on idea and experimentation for commercial viability/Candidates with industrial experience in the field of proposed work / people sponsored by the industry .</p>

TNAU-UIC Innovation Fellowships

S. No	Broad area	Number & type of fellowship*	Qualification & Eligibility
1	Genomics (including DNA markers for marker assisted breeding and varietals identification; Molecular kits / diagnostics for plant diseases)	Post-doc 1	Essential: PhD in Agriculture / Biotechnology / Life sciences Eligible/Desirable: Doctoral thesis research related to proof of concept in the proposed project, experience related to product development / industrial research
2	Bioprospecting and bioproducts (including Bio-formulations for crop production and protection; Production and scale up of bio-molecules / bio-pharmaceuticals / novel agricultural by-products)	Post MSc 1	Essential: MSc (Ag) / M Sc in life sciences or Pharmacology or Biotechnology / ME / MTech in Agriculture /Biotechnology Eligible/Desirable: Master's research related to the proposed project, experience related to product development / industrial research
		Post-doc 1	Essential: PhD in Agriculture / Biotechnology / Life sciences/ Pharmacology/Engineering Eligible/Desirable: Doctoral thesis research related to proof of concept in the proposed project, experience related to product development / industrial research
3	Innovative food processing / products (including new kinds of farm-sourced food products, technologies to improve food processing, value addition for agricultural / horticultural products)	Post MSc 1	Essential: MSc (Ag) / M Sc in life sciences or Home science or biotechnology; ME / MTech in food technology or processing or biotechnology Eligible/Desirable: Master's research related to the proposed project, experience related to product development / industrial research
4	Precision farming (including Protected cultivation, Production of quality seeds and planting materials, Prediction and analytics for enhanced crop production, Novel techniques for crop production and resource use efficiency, Urban and semi-urban horticulture, Off season flower / fruit production)	Post MSc 1	Essential: MSc (Ag) / M Sc in life sciences or biotechnology or MTech in biotechnology or horticulture or soil water conservation engineering Eligible/Desirable: Master's research related to the proposed project, experience related to product development / industrial research

5	Farm mechanization (including self-propelled machines that replace farm labor, increase productivity, and enable automation; processes with energy efficient resource utilization)	Post MSc 1	Essential: ME / MTech in agriculture or relevant area Eligible/Desirable: Master's research related to the proposed project, experience related to product development / industrial research
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University of Rajasthan, Jaipur-UIC Innovation Fellowships

Broad scientific area: CONVERGING TECHNOLOGIES

S. No	Specific research area	Type of fellowship*	Qualification & Eligibility
1	Cellular Therapeutics	Post-doc	<p>Essential: Ph.D. in any field of biology including but not restricted to Converging Technologies /Agriculture/ Biotechnology/Life Sciences/Biochemistry/Biophysics/Animal Biotechnology/Zoology/Botany or any other related field in biological sciences.</p> <p>Desirable: Doctoral thesis research related to proof of concept in the proposed project, experience related to product development / industrial research</p>
		Post-M.Sc.	<p>Essential: M.Tech./M.Sc. in any field of science including but not restricted to Converging Technologies/Life Sciences/Biochemistry/Microbiology/Biophysics/Botany/Zoology/ Pharmacology/Biotechnology/Agricultural Biotechnology or any other related field in biological sciences.</p> <p>Desirable: Master's research related to the proposed project, experience related to product development / industrial research</p>
2	Bioactive drugs	Post-doc	<p>Essential: Ph.D. in any field of biology including but not restricted to Converging Technologies /Agriculture/ Biotechnology/Life Sciences/Biochemistry/Biophysics/Animal Biotechnology/Zoology/Botany or any other related field in biological sciences.</p> <p>Desirable: Doctoral thesis research related to proof of concept in the proposed project, experience related to product development /industrial research</p>
		Post M.Sc.	<p>Essential: M.Tech./M.Sc. in any field of science including but not restricted to Converging Technologies/Life Sciences/Biochemistry/Microbiology/Biophysics/Botany/Zoology/ Pharmacology/Biotechnology/Agricultural Biotechnology or any other related field in biological sciences.</p> <p>Desirable: Master's research related to the proposed project, experience related to product development / industrial research</p>
3	Value added food products	Post-doc	<p>Essential: Ph.D. in any field of science including but not restricted to Converging Technologies/Life sciences/ Home science/Zoology/Botany/Biotechnology any other related field in biological sciences.</p>

			Eligible/Desirable: Master's research related to the proposed project, experience related to product development / industrial research
		Post M.Sc.	<p>Essential: M.Tech./M.Sc. in in any field of science including but not restricted to Converging Technologies/Life sciences/ Home science/Zoology/Botany/Biotechnology any other related field in biological sciences.</p> <p>Eligible/Desirable: Master's research related to the proposed project, experience related to product development / industrial research</p>
4	Bioinformatics	Post-doc	<p>Essential: Ph.D. in any field of biology including but not restricted to Converging Technologies /Agriculture/ Biotechnology/Life Sciences/Nanotechnology/Computational Biology Biochemistry/ Bioinformatics/ Biophysics/Animal Biotechnology/Zoology/Botany/Physics/Chemistry or any other related field in biological sciences.</p> <p>Desirable: Doctoral thesis research related to proof of concept in the proposed project, experience related to product development / industrial research</p>
		Post M.Sc.	<p>Essential: M.Tech./M.Sc. in any field of science including but not restricted to Converging Technologies/Bioinformatics /Computer Science/ Computational Biology/ Nanotechnology /Life Sciences/Biochemistry /Microbiology/Biophysics/Botany/Zoology/Pharmacology/ Biotechnology/ Agricultural Biotechnology or any other related field in biological sciences or MCA.</p> <p>Desirable: Master's research related to the proposed project, experience related to product development / industrial research</p>
5.	Nanotechnology	Post-doc	<p>Essential: Ph.D. in Converging Technologies / Biotechnology/Life Sciences/Nanotechnology/ Biochemistry/Physics / Chemistry/Biophysics/Animal Biotechnology/Zoology/Botany or any other related field.</p> <p>Desirable: Doctoral thesis research related to proof of concept in the proposed project, experience related to product development / industrial research</p>
		Post M.Sc.	<p>Essential: M.Tech./M.Sc. in any field of science including but not restricted to Converging Technologies/Nanotechnology /Physics/ Chemistry /Life Sciences/Biochemistry /Microbiology/Biophysics/Botany/Zoology/Pharmacology/ Biotechnology/ Agricultural Biotechnology or any other related field in biological sciences or MCA.</p>

			Desirable: Master's research related to the proposed project, experience related to product development / industrial research
<p>Innovative research projects not related to the four above-mentioned research areas might be considered depending upon the feasibility of performing research and innovation at University of Rajasthan or in collaboration with industrial partners. The decision of expert committee will be final and binding.</p> <p>A total of two Post-docs and four Post M.Sc. applicants will be selected for UIC-B at University of Rajasthan, Jaipur. Mere fulfilling the eligibility criterion does not entitle applicants to be called for interview.</p>			

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University of Agricultural Sciences, Dharwad-UIC Innovation Fellowships

S. No	Broad area	Number & type of fellowship*	Qualification & Eligibility
1	Recombinant DNA technology and Process Microbiology, Biomolecules discovery including secondary metabolites from diverse sources/Trans Expression of proteins and scale up/metagenomics, Extracts to improve plant growth and for plant protection, Antimicrobials and and other related areas.	Post-doc 1	<p>Essential: Doctoral Degree in Agriculture/Horticulture/Forestry/ Veterinary Sciences/any branch of Life Sciences/Organic chemistry / Biotechnology or Bioprocessing// Biotechnology/Molecular Biology/ Molecular Biology and Biotechnology</p> <p>Desirable: Thesis work/ research related to the proposed project, with relevant experience/ expertise to take up the specialized area of work chosen</p>
2	Bioinoculant Development, Biofuels(Algae and others) Including microbe based soil health enhancers, plant growth enhancers, plant protection agents, consortia development, biofuels including algae and and other related areas.	Post MSc 1	<p>Essential: Masters Degree in Agriculture/Horticulture/Forestry/ Veterinary Sciences/Any branch of Life Sciences/ M.Tech in Biotechnology / Biotechnology/Molecular Biology/ Molecular Biology and Biotechnology</p> <p>Desirable: Thesis work/ research related to the proposed project, with relevant experience/ expertise to take up the specialized area of work chosen.</p>
3	Nanobiotechnology Synthesis and characterization of nanoparticles, Development of nanoparticle-based improved delivery systems for crop protection and production and other related areas.	Post MSc 1	<p>Essential: Masters Degree in Agriculture/Horticulture/Forestry/ veterinary sciences/any branch of Life Sciences/ M.Tech in Biotechnology/Masters in Nanotechnology/ / Biotechnology/Molecular Biology/ Molecular Biology and Biotechnology Nanobiotechnology</p> <p>Desirable: Thesis work/ research related to the proposed project, with relevant experience/ expertise to take up the specialized area of work chosen</p>
4	Food Biotechnology and Nutraceuticals Value addition to food products, Fermented Foods: Characterization, improvement and development, enology, Development of nutraceutical foods/energy foods and other related areas.	Post MSc 1	<p>Essential: Masters Degree in Agriculture/Horticulture/Forestry/Veterinary Sciences/any branch of Life Sciences/ MTech in Food Technology/Biotechnology/Masters in Food technology/ Biotechnology/Molecular Biology/ Molecular Biology and Biotechnology</p> <p>Desirable: Thesis work/ research related to the proposed project, with relevant experience/ expertise to take up the specialized area of work chosen</p>
5	Crop Improvement Tissue Culture, Molecular Breeding, Biofortification, Plant Transgenics Hybrid Seed Production. Molecular Methods	Post-doc 1	<p>Essential: Doctoral Degree in Agriculture/ Horticulture/Forestry/any branch of life sciences/ Biotechnology/Molecular Biology/ Molecular Biology and Biotechnology</p>

	to improve crop production/productivity and other related areas.		<u>Desirable:</u> Thesis work/ research related to the proposed project, with relevant experience/ expertise to take up the specialized area of work chosen
		Post MSc 1	<u>Essential:</u> Masters Degree in Agriculture/Horticulture/Forestry/ veterinary sciences/any branch of life sciences// Biotechnology/Molecular Biology/ Molecular Biology and Biotechnology <u>Desirable:</u> Thesis work/ research related to the proposed project, with relevant experience/ expertise to take up the specialized area of work chosen

***Stipend / Fellowship (Consolidated): Post doctoral: Rs 50,000 per month; Post Masters: Rs 30,000 per month. The number and type of fellowships for each area is subject to changes depending on the quality of proposals/n.**

Panjab University: Focus Area

S. No	Broad area	Number & type of fellowship*	Qualification & Eligibility
1	Bioprocess Technology (Scale-up)	Post Doc-1	<p>Essential: Ph. D in areas of Biotechnology/ Microbiology/ Biochemistry Pharmaceutical Biotechnology & allied disciplines.</p> <p>Eligibility: Ph. D Thesis should be related to Bioprocess development for high value commercials and their scale up. Candidates with industrial experience or candidates sponsored (partially) by the industry will be preferred. Preference will be given to candidates with practical knowledge of IP protection.</p>
	Bioprocess Technology	Post Master's-2	<p>Essential: Master's in areas of Biotechnology/Bioprocess Engineering /Microbiology/ Bio chemistry / Bio Physics/ Pharmaceutical technology & allied disciplines.</p> <p>Eligibility: Master's Thesis should be related to process/ product development in any of the above stated areas. Candidates with industrial experience in the field of proposed work or with partial sponsorship from the industry will be preferred. Preference will be given to candidates with practical knowledge of IP protection.</p>
2	Healthcare Products	Post Doc-1	<p>Essential: Ph. D in areas of Biotechnology/Microbiology/Microbial Biotechnology/ Pharmaceutical Biotechnology/Bioprocess Engg. & allied disciplines.</p> <p>Eligibility: Ph. D Thesis should be related to product development with a preference to candidates with experience in healthcare products. Candidates with industrial experience/ patents (filed or granted) in the field of proposed work will be preferred.</p>
		Post Master's-2	<p>Essential: Masters in areas of Biotechnology/Bioprocess Engineering /Microbiology/ Bio chemistry / Bio Physics/ Pharmaceutical technology & allied</p>

			<p>disciplines.</p> <p>Eligibility: Master's Thesis should be related to biocatalysis/healthcare product/s with preliminary experimental evidence/ candidates with industrial experience in the field of proposed work/ candidates sponsored by the industry will be preferred.</p>
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