



# INSTITUTE OF CHEMICAL TECHNOLOGY

(University under Section-3 of UGC Act 1956) (Formerly UDCT/ UICT, Mumbai)

Elite Status & Centre of Excellence – Government of Maharashtra

Matunga, Mumbai- 400 019, India

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Mumbai

ICT-IOC, Bhubaneswar

ICT Marathwada, Jalna

## FACULTY RECRUITMENT

Applications are invited in the prescribed form available on the Institute website [www.ictmumbai.edu.in](http://www.ictmumbai.edu.in) for the following faculty positions to be filled at ICT Marathwada off-Campus, Jalna and ICT-IOC Odisha off-Campus, Bhubaneswar. The online application form can be submitted from September 05, 2019 to September 20, 2019.

### Faculty Requirement at ICT

| Name of Post                               |  | Number of Posts |
|--|--|-----------------|
| <b>A. ICT Marathwada off-Campus, Jalna</b> |  |                 |
| 1.   | Professor in Chemical Engineering                          | 01              |
| 2.   | Associate Professor in Chemical Engineering                | 02              |
| 3.   | Associate Professor in Food Engineering and Technology     | 01              |
| 4.   | Associate Professor in Pharmaceutical Technology           | 01              |
| 5.   | Associate Professor in Materials and Polymer Engineering   | 01              |
| 6.   | Assistant Professor in Chemical Engineering                | 03              |
| 7.   | Assistant Professor in Petrochemical / Energy Engineering  | 01              |
| 8.   | Assistant Professor in Lipid / Oil Technology              | 01              |
| 9.   | Assistant Professor in Biotechnology                       | 01              |
| 10.  | Assistant Professor in Mechanical Engineering              | 01              |
| 11.  | Assistant Professor in Electrical / Electronic Engineering | 01              |
| 12.  | Assistant Professor in Engineering Mathematics             | 01              |
| 13.  | Assistant Professor in Computer Science and Engineering    | 01              |
| 14.  | Assistant Professor in Applied Physics                     | 01              |
| 15.  | Assistant Professor in Physical Chemistry                  | 01              |
| 16.  | Assistant Professor in Communication Skill and Humanities  | 01              |
| 17.  | Librarian  | 01              |
| <b>Total</b>                               |  | <b>20</b>       |

| Name of Post                                       |  | Number of Posts |
|--|--|-----------------|
| <b>B. ICT – IOC Odisha off-Campus, Bhubaneswar</b> |  |                 |
| 1.   | Professor in Chemical Engineering                          | 01              |
| 2.   | Professor in Industrial and Inorganic Chemistry            | 01              |
| 3.   | Associate Professor in Chemical Engineering                | 02              |
| 4.   | Associate Professor in Food Engineering and Technology     | 01              |
| 5.   | Associate Professor in Pharmaceutical Technology           | 01              |
| 6.   | Associate Professor in Materials and Polymer Engineering   | 01              |
| 7.   | Assistant Professor in Chemical Engineering                | 03              |
| 8.   | Assistant Professor in Petrochemical / Energy Engineering  | 01              |
| 9.   | Assistant Professor in Fibre Science and Technology        | 01              |
| 10.  | Assistant Professor in Biotechnology                       | 01              |
| 11.  | Assistant Professor in Mechanical Engineering              | 01              |
| 12.  | Assistant Professor in Electrical / Electronic Engineering | 01              |
| 13.  | Assistant Professor in Engineering Mathematics             | 01              |
| 14.  | Assistant Professor in Computer Science and Engineering    | 01              |
| 15.  | Assistant Professor in Physical Chemistry                  | 01              |
| 16.  | Assistant Professor in Communication Skill and Humanities  | 01              |
| 17.  | Librarian  | 01              |
| <b>Total</b>                                       |  | <b>20</b>       |

**A. Pay scales and other essential and desirable conditions for appointment to above faculty positions -**

**1. Professor –**

**Pay scale –** Rs. 37400 - 67000 with AGP Rs. 10000

(Minimum pay in Pay Band - Rs. 43,000)

**Qualification –**

a. Ph.D. preceded by UG / PG degree in the relevant branch of engineering / Technology / Pharmacy / Sciences in First class or equivalent CGPA score at either of the level.

and

b. Minimum cumulative experience of 15 years in Academics / Research / Industry gained after acquiring Bachelor's Degree, out of which at least 5 years must be at the level of Associate Professor or equivalent grade in Research / Industry.

and

c. i. should have published minimum 25 research papers after Ph.D. in refereed journals with cumulative impact factor of 50.

or

ii. Candidates claiming the cumulative experience only from industries should have independent involvement for at least 5 years in the field of quality up-

gradation, quality assurance and ensuring various national level certifications for industrial production processes.

and

- d. Should have guided at least 5 Ph.D. students in the relevant field wherein,
- \* A single guide to 3 master's students in the relevant field shall be considered equivalent to a guide for 1 Ph.D. student.
  - \* 1 patent granted in the relevant field as a first investigator or where applicants own student is the first investigator and applicant himself is the co-investigator shall be considered equivalent to guiding 1 Ph.D. student.
  - \* Technology Transferred at the commercial scale in the relevant field wherein applicant has major contribution in the development of Technology shall be considered in the ratio of 2:5 as guide to Ph.D. student.

Note – The candidates claiming cumulative experience only from industries shall be exempted from the 'd' above subjected to the condition that they should have ample documentary evidence of their involvement in project implementation or as industry experts / external examiner / research project reviewer with academics institutes of repute at the Master's / Ph.D. level for atleast 5 years and must have working experience in the implementation of commercialization process of Developed Technologies at the industrial level.

**Age Limit** – Should not be more than 54 years of age.

## **2. Associate Professor –**

**Pay scale** – Rs. 37400 - 67000 with AGP Rs. 9000

**Qualification** –

- a. Ph.D. preceded by UG / PG degree in the relevant branch of engineering / Technology / Pharmacy / Sciences in First class or equivalent CGPA score at either of the level.

and

- b. Minimum cumulative experience of 8 years in Academics / Research / Industry gained after acquiring Bachelor's Degree, out of which at least 5 years must be at the level of Assistant Professor or equivalent grade in Research / Industry.

and

- c. i. Should have published minimum 15 research papers after Ph.D. in refereed journals with cumulative impact factor of 25.

and

- d. Should have guided at least 2 Ph.D. students in the relevant field wherein,
- \* A single guide to 3 master's students in the relevant field shall be considered equivalent to a guide for 1 Ph.D. student.
  - \* 1 patent granted in the relevant field as a first investigator or where applicants own student is the first investigator and applicant himself is the co-investigator shall be considered equivalent to guiding 1 Ph.D. student.
  - \* Technology Transferred at the commercial scale in the relevant field wherein applicant has major contribution in the development of Technology shall be considered in the ratio of 2:5 as guide to Ph.D. student.

Note - The candidates claiming cumulative experience only from industries shall be exempted from the 'c' and 'd' above subjected to the condition that they should have ample documentary evidence of their involvement in project implementation or as industry experts / external examiner / research project reviewer/ with academics institutes of repute at the Master's / Ph.D. level for atleast 3 years and must have working experience in the implementation of commercialization process of developed technologies at the International level.

**Age Limit** – Should not be more than 45 years of age.

### 3. Assistant Professor –

**Pay scale** – Rs. 15600 - 39100 with AGP Rs. 6000

**Qualification** –

- a. Ph.D. preceded by UG / PG degree in the relevant branch of engineering / Technology / Pharmacy / Sciences in First class or equivalent CGPA score at either of the level.

and

Should have published minimum 5 research papers in refereed journals with cumulative impact factor of 10

**\*The condition of research papers and impact factor shall not be mandatory for appointments in Communication Skills, Engineering Mathematics and Library.**

**Age Limit** – Should not be more than 35 years of age.

### 3. Librarian –

**Pay scale** – Rs. 15600 - 39100 with AGP Rs. 6000

**Qualification** –

- a. Ph.D. preceded by UG / PG degree in Library Science in First class or equivalent CGPA score at either of the level.

**Age Limit** – Should not be more than 35 years of age.

**B. Equivalent qualification for the faculty positions for various positions shall be as following:**

| Sr. No. | Branch of Engineering / Technology / Science | Relevant / Equivalent qualifications at UG level | Relevant / Equivalent qualifications at PG level | Relevant / Equivalent Doctoral Degree |
|---------|--|--|--|---------------------------------------|
| 1.      | Chemical Engineering                         | Chemical engineering                             | Chemical Engineering                             | Chemical Engineering                  |
|         |  |  |  | Chemical Technology                   |
|         |  |  |  | Bio Technology                        |
|         |  |  |  | Bio Chemical Engineering              |
|         |  |  |  | Bioprocess Technology                 |
|         |  |  |  | Bio Engineering                       |
|         |  |  |  | Material Science and Technology       |
| 2.      | Food Engineering and Technology              | Food Technology                                  | Food Technology                                  | Food Technology                       |
|         |  | Food Process Engineering                         | Food Process Engineering                         | Fermentation Technology               |
|         |  |  |  | Bio Chemical Engineering              |
|         |  |  |  | Other Relevant field                  |
| 3.      | Pharmaceutical Technology                    | Pharmacy   | Pharmacy   | Pharmacy                              |
|         |  | Pharmaceutical Technology                        | Pharmaceutical Technology                        | Pharmaceutical Technology             |
|         |  |  |  | Other Relevant field                  |
|         |  |  |  |                                       |

|     |                                     |   |   |  |
|-----|-------------------------------------|---|---|--|
| 4.  | Materials and Polymer Engineering   | Plastics Technology                             | Plastics Technology                             | Plastics Technology  |
|     |                                     | Polymer Technology                              | Polymer Technology                              | Polymer Technology   |
|     |                                     | Plastics Engineering                            | Plastics Engineering                            | Plastics Engineering   |
|     |                                     | Polymer Engineering                             | Polymer Engineering                             | Polymer Engineering  |
|     |                                     | Paint Technology                                | Paint Technology                                | Paint Technology   |
|     |                                     | Surface Coating Technology                      | Surface Coating Technology                      | Surface Coating Technology<br>Other Relevant field               |
| 5.  | Fibre Science and Technology        | Fibre Science and Textile Processing Technology | Fibre Science and Textile Processing Technology | Fibre Science and Textile Processing Technology                  |
|     |                                     | Textile Engineering                             | Textile Engineering                             | Textile Engineering  |
|     |                                     | Textile Technology                              | Textile Technology                              | Textile Technology   |
|     |                                     | Textile Chemistry                               | Textile Chemistry                               | Textile Chemistry  |
|     |                                     | Fibre Chemistry                                 | Fibre Chemistry                                 | Fibre Chemistry  |
|     |                                     | Fibre Science                                   | Fibre Science                                   | Fibre Science  |
|     |                                     |   |   | Polymer Science  |
|     |                                     |   |   | Polymer Technology<br>Organic Chemistry<br>Other relevant fields |
| 6.  | Petrochemical / Energy Engineering  | Petrochemical Engineering                       | Petrochemical Engineering                       | Petrochemical Engineering  |
|     |                                     | Chemical Engineering                            | Chemical Engineering                            | Chemical Engineering   |
|     |                                     | Energy Engineering                              | Energy Engineering                              | Energy Engineering   |
|     |                                     |   |   | Other Relevant field   |
| 7.  | Biotechnology                       | Biotechnology                                   | Biotechnology                                   | Biotechnology  |
|     |                                     | Green Technology                                | Green Technology                                | Green Technology   |
|     |                                     | Biochemical Engineering                         | Biochemical Engineering                         | Other relevant field   |
|     |                                     | Chemical Engineering                            | Chemical Engineering                            |  |
|     |                                     | Applied Sciences                                | Applied Sciences                                |  |
| 8.  | Mechanical Engineering              | Mechanical Engineering                          | Mechanical Engineering                          | Mechanical Engineering   |
|     |                                     | Production Engineering                          | Production Engineering                          | Production Engineering   |
|     |                                     |   |   | Other relevant field   |
| 9.  | Electrical / Electronic Engineering | Electrical and Electronic Engineering           | Electrical and Electronic Engineering           | Electrical and Electronic Engineering                            |
|     |                                     | Electrical and Electronic Powers System         | Electrical and Electronic Powers System         | Electrical and Electronic Powers System                          |
|     |                                     | Electrical And Electronic and Power             | Electrical And Electronic and Power             | Electrical And Electronic and Power                              |
|     |                                     | Electrical Engineering                          | Electrical Engineering                          | Electrical Engineering   |
|     |                                     | Electronic Engineering                          | Electronic Engineering                          | Electronic Engineering   |
|     |                                     |   |   | Other relevant field   |
| 10. | Engineering Mathematics             | Mathematics                                     | Mathematics                                     | Applied Mathematics  |
|     |                                     | Applied Mathematics                             | Applied Mathematics                             | Engineering Mathematics  |
|     |                                     | Engineering Mathematics                         | Engineering Mathematics                         | Other relevant fields  |
|     |                                     | Statistics                                      | Statistics                                      |  |
|     |                                     |   |   |  |
| 11. | Computer Science and Engineering    | Computer Science and Engineering                | Computer Science and Engineering                | Computer Science and Engineering                                 |
|     |                                     | Computer Science                                | Computer Science                                | Computer Science   |
|     |                                     | Computer and Communication Engineering          | Computer and Communication Engineering          | Computer and Communication Engineering                           |
|     |                                     | Software Engineering                            | Computer and information science                | Software Engineering   |
|     |                                     |   | Artificial Intelligence                         | Other relevant fields  |
|     |                                     |   | Biometrics and Cyber Security                   |  |
|     |                                     |   | Communication and Networking                    |  |
|     |                                     |   | Software Engineering                            |  |
| 12. | Applied Physics                     | Physics   | Physics   | Physics  |
|     |                                     | Applied Physics                                 | Applied Physics                                 | Applied Physics  |
|     |                                     |   | Electronics                                     | Material Physics   |

|     |                                    |                                    |                                    |   |
|-----|------------------------------------|------------------------------------|------------------------------------|---|
|     |                                    |                                    |                                    | Engineering Physics<br>Other relevant fields            |
| 13. | Physical Chemistry                 | Chemistry                          | Physical Chemistry                 | Physical Chemistry                                      |
| 14. | Industrial and Inorganic Chemistry | Industrial and Inorganic Chemistry | Industrial and Inorganic Chemistry | Physical Chemistry                                      |
|     |                                    | Chemistry                          | Chemistry                          | Inorganic Chemistry                                     |
|     |                                    | Physical Chemistry                 | Physical Chemistry                 | Other relevant field                                    |
|     |                                    | Inorganic Chemistry                | Inorganic Chemistry                | -   |
| 15. | Communication Skill and Humanities | Any Bachelors Degree               | English                            | English<br>Communication skill<br>Other relevant fields |
| 16. | Library                            | Library Science                    | Library Science                    | Library Science   |

### C. Instructions:

1. The candidate wishing to apply for more than one position / off-Campuses must submit independent application for each position / campus.
2. The candidates nominated by the Eminent Academicians such as Vice Chancellor / Directors of the Institute of National importance and Eminent Scientist shall be considered for the interview subjected to the fulfilment of the related conditions of appointment prescribed above.
3. The educational qualifications prescribed for a given post are the minimum and mere possession of the same shall not entitle a candidate to be called for an interview.
4. Candidates who do not have formal Master's degree but have earned their Ph.D. (integrated) directly after Bachelor's degree shall be evaluated through the course credits earned during their doctoral work.
5. If a Class/ Division is not awarded at the Bachelor's/ Master's level, a minimum of 60% marks in aggregate shall be considered equivalent to First class/ division. If a Grade Point system is adopted, the CGPA will be converted into equivalent marks.
6. Co-guideship for Ph. D / Masters Students shall not be considered for calculating equivalence as Ph. D. guide.
7. The period of time taken by candidate to acquire M.Phil. and / or Ph.D. Degree shall not be considered as teaching/ research experience to be claimed for appointment to the teaching positions.
8. The publications based on the independent or guided research work during the qualifying service in the lower grade or those emanating from post-doctoral work in reputed academic/ research institute shall only be considered for calculation of merit. Applicant's own doctorate publications will not be considered except at Assistant Professor level.

9. Only those publications will be considered for calculation of impact factor where the applicant is the author for correspondence (Main author) or where at least one of the co- authors is his / her own student under supervision.
10. In case of candidates who have guided Ph.D.s/ Masters students, there should be publications/ patents arising out of the Ph.D. thesis in refereed national/ international journals. Merely guiding or co-guiding Ph.D. will not gain any weightage in the absence of publications.
11. The research papers published in cited peer reviewed journals of repute in the relevant scientific areas shall only be considered for giving due merit.
12. The quality and impact factor of the journal for a specific discipline will be decided by the Scrutiny Committee and a cumulative impact factor for that discipline shall be as reported on Scopus and Web of Science.
13. In case of multiple author papers, or multi-institutional collaborations, the contribution of the candidate will be decided as per the status of the candidate whether s/he has worked as corresponding author/ supervisor, co-author or one of the students.
14. Assessment of Analytical ability test will be conducted for every candidate who is called for interview.
15. The short-listed candidates will be required to make three types of presentations before the Departmental Committee prior to interview by the Selection Committee:
  - 1) Classroom teaching,
  - 2) Past research and future research interests and
  - 3) Plans for out-reach activities.

The performance in these presentations along with analytical ability result will be one of the major criteria for selection of the candidate for faculty position.

#### **D. Important points to note before filling up the Application Form:**

1. Link for Online application form shall be activated on the ICT website [www.ictmumbai.edu.in](http://www.ictmumbai.edu.in) from 5<sup>th</sup> September, 2019 to 20<sup>th</sup> September, 2019. The Candidates are required to submit online application form along with supporting documents **on or before 20<sup>th</sup> September, 2019.**
2. The appointments shall be carried out on temporary basis which may be made permanent subjected to the roster finalization, category of selected candidates and approval of the Board of the Governors of the Institute.

3. The application fee of Rs.1000/- (for General Category) and Rs. 500/- (for candidates belonging to reserved categories of State of Maharashtra), shall be paid online while submitting the form.
4. Candidates already employed must submit their applications through proper channel along with No Objection certificate from present employer.
5. Applications incomplete in any respect, applications without required supporting documents or those submitted after the last date of receipt of application will not be considered.
6. Candidates are requested to refer ICT website from time to time as all information and circulars will be notified on the website.
7. As per the Notification No. SRV.2000/CR (17/2000) XII, dated 28<sup>th</sup> March 2005 issued by General Administration Department, Mantralaya, Mumbai, a candidate shall submit the declaration of the small family in the prescribed proforma attached to the application form.
8. For reserved posts, candidates belonging to the concerned reserved category only should apply.
9. Candidates belonging to the reserved categories as recognized in the state of Maharashtra shall only be considered under reserved categories. The candidate belonging to the reserved categories from outside the State of Maharashtra will be treated as Open.
10. 3% of the Reservation shall be applicable to the disabled persons having minimum of 40% disability as per GR NYP 2011/P.K. 129, Sudhar -3 dt. 4<sup>th</sup> August 2011, subject to availability/ suitability.
11. The age of the candidate as on 5<sup>th</sup> September, 2019
12. Teaching Experience as an approved teacher by the related University or equivalent authority will only be considered. Relevant experience and educational qualification will be counted as on the last date prescribed for submitting the applications, i.e. **20<sup>th</sup> September, 2019**.
13. The decision of the appointing authority will be final and binding on applicants and no correspondence in this regard will be entertained.
14. No correspondence with ineligible candidates will be made.
15. Candidates called for interview will have to remain present at their own expenses.
16. Candidates should invariably fill the information regarding court cases, pending criminal cases, disciplinary actions or equivalent, etc. in the relevant column of the application Form. In such cases, the Scrutiny Committee reserves the right to consider or not to consider the candidature for the recruitment. Any changes in this information as and when occurred after the submission of application form till



the date of selection committee meeting for recruitment process should be brought to the notice of the Institute by the candidate, failing which the Institute reserves the right to cancel the candidature and to debar him/her from selection or after selection.

17. A person appointed to the post shall be on probation for a period of one year.
18. This is a rolling advertisement. After the current faculty recruitment process is over, the vacancies will be indicated on the ICT website and the process will continue till all the posts are filled up.
19. Candidates must upload the attested photocopies of the following supporting documents

**a. Documents for administrative scrutiny –**

1. Document in support of Date of Birth.
2. Copy of Government Gazette or any other appropriate certificate in case of change in name.
3. Small family declaration form in the given format with application form.
4. No objection certificate from present employer.
5. Caste certificate issued by the component authority if candidate belongs to any of the reserved category, namely, SC/ ST/ DT NT-A/ NT-B/ NT-C/ NT-D/ OBC/ SBC.
6. Caste Validity Certificate/commitment to submit it within six months from the date of appointment order.
7. Non creamy layer certificate for the candidate belonging to the DT NT-A, NT-B, NT-C, NT-D, OBC and SBC categories, issued by the component authority.

**b. Documents for Academics scrutiny –**

1. Photo copies of marksheets and certificates supporting the educational qualifications from SSC onwards.
2. Photo copies of University approval letters in case of teachers appointed in Colleges/ Institutions.
3. Photo copies of Appointment orders and joining letters.
4. Photo copies of Certificate of teaching experience and/ or post doctoral research.
5. All related document to prove claims with regard to guideship for Ph.D./M.Tech Students, certificate courses, refresher courses, additional qualifications, publications, research papers, patents and commercial technologies.

**c. Required additional submissions -**

All candidates are required to submit the following documents in addition to the above mentioned essential documents along with their application.

1. Research statement and strength of research and its relevance to existing areas or emerging areas related to the activities of the ICT.
2. Teaching statement with regard to the course/subjects that the candidate would like to teach with respect to the following:
  - i. Undergraduate Courses
  - ii. Postgraduate Courses
  - iii. New Courses related to personal expertise to be taught at Ph.D. level.
  - iv. Interdisciplinary courses
3. Brief abstract of one or two research proposals to be submitted to funding agencies.
4. Type of in-house activities the candidate would like to undertake and also extra mural activities.
5. Type of teaching methodology to be adopted.
6. Types of industries where the candidate's research will have connectivity including names of some of them for industry - institute collaborations.
7. Whether interested in developing a new area of research based on his/her exposure as Post- doctoral fellow or industrial experience or the like.

- **All the original certificates must be produced at the time of Interview.**

**Registrar**