

Ceramic Technologist

Aliases: Ceramic Scientist

Industry/Sector(s): Capital Goods and Manufacturing

JOB DESCRIPTION ¹

The tasks a Ceramic Technologist is expected to perform include:

- Conducting research related to ceramics products
- Developing processing techniques used in this field
- Supervising technical work concerned with manufacturing
- Analyzing test results to determine combinations of materials
- Ensuring high quality of products
- Looking into new technologies in ceramics like refractories for air craft
- Designing equipment and apparatus for forming, firing and handling products
- Co-ordinating testing activities of finished products for various characteristics

WORK ENVIRONMENT ¹

- It is not a desk job
- Need to supervise a team of ceramic workers
- Local travelling is not a part of this job role
- Part-time work and contractual jobs are not available
- Work from home option is not available

Working hours

- Companies usually work for 5/6 days a week and 8/9 hours everyday. This may vary from company to company
- Shift system maybe available

Is the job suitable for a candidate with special needs?

No

EDUCATIONAL QUALIFICATIONS AND TRAINING ⁴

Minimum – Bachelor's in Ceramic Engineering

KEY COMPETENCIES ¹

- Knowledge of all the physical, chemical and heat-resisting properties of materials such as clays and silica
- Knowledge of ceramic production, such as brick, glass, crockery, tile, pipe or refractories
- Familiar with the research in the development of heat-resistant properties of the materials
- Knowledge of development of corrosion-resistant material for use in nuclear energy field
- Knowledge of methods of processing, forming and firing of clays
- Proficient in the development of new ceramic products
- Knowledge of all the safety precautions required
- Skilled in product designing

DESIRABLE COMPETENCIES ⁴

Not applicable

AVAILABLE SKILL TRAINING AND LEARNING INSTITUTES

- Department of Ceramic Engineering Banaras Hindu University, Varanasi
- Institute of Information and Technology
- National Institute of Technology Rourkela
- Government College of Engineering and Ceramic Technology Kolkata
- Anna University PDA College of Engineering Gulbarga (Karnataka)
- Central Glass and Ceramic Research Institute Kolkata

AVAILABLE SKILL TRAINING SCHEMES/SCHOLARSHIPS

<http://mhrd.gov.in/scholarships-education-loan-0>
http://megeeducation.gov.in/dhte/scholarship/schemes/schhandbook_nec.html

SAMPLE OF TRAINING AND LEARNING COURSES

http://www.infinitecourses.com/Course_Details.aspx?Course=BTech-%28Ceramic-Engineering%29&CourseID=4729
<https://targetstudy.com/courses/be-ceramic-technology.html>

CAREER PROGRESSION PATH ¹

Head of Research



Manager Research



Associate Manager Research Activities



Senior Technologist, Ceramic



Ceramic Technologist



Research Trainee

Transfer option

- India: Yes
- Abroad: No

*(*This field to open the relevant job title when clicked)*

EXPECTED EARNINGS ⁴

- For freshers - ₹ 29,000 to ₹ 38,000 per month
 - For candidates with experience - ₹ 42,000 to ₹ 75,000 per month
- (These figures are indicative and subject to change)*

REQUIRED WORK EXPERIENCE

Not required

PROBABLE EMPLOYERS

- Ceramic factories
- Ceramic research labs
- Government research labs
- Consulting firms

PEOPLE'S CORNER

Coming Soon

KEYWORDS

- Ceramic Research Engineers
- Ceramic Consultants
- Ceramic Technologists
- Ceramic Researchers

OCCUPATIONAL CODES AND STANDARDS

Standard	Code	Description
NCO 2015	2141.2300	Ceramic Technologist
ISCO 2008	2141	Industrial and Production Engineers
NIC 2008	23912; 23913; 23919; 23922; 23932; 23933; 23934; 23935; 23939	<p>Manufacture of refractory bricks, blocks tiles and similar refractory ceramic constructional goods;</p> <p>Manufacture of refractory ceramic products;</p> <p>Manufacture of other refractory articles n.e.c.;</p> <p>Manufacture of non-refractory ceramic sanitary wares: sinks, baths, watercloset pans, flushing cistern etc.;</p> <p>Manufacture of ceramic tableware and other domestic or toilet articles;</p> <p>Manufacture of statuettes and other ornamental ceramic articles;</p> <p>Manufacture of electrical insulators and insulating fittings of ceramics;</p> <p>Manufacture of ceramic laboratory, chemical and industrial products;</p> <p>Manufacture of ceramic products n.e.c.</p>
QP Reference	NA	NA

NSQF	NA	NA
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REFERENCES

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2	http://socialjustice.nic.in/pdf/dd3-group-a.pdf
3	http://www.delhi.gov.in/wps/wcm/connect/doiit_labour/Labour/Home Statistics+And+Miscellaneous/Occupations+Declared+Dangerous+Under+Section+87+of+the+Factories+Act,+1948
4	http://info.shine.com/article/ceramic-engineer-as-a-career-option/2198.html
5	http://www.iitbhu.ac.in/cer http://jee.iitd.ac.in www.nitrkl.ac.in www.gcect.ac.in http://pda.hkesociety.org http://www.gcect.ac.in

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7	www.censusindia.gov.in
8	http://www.cgsc.in/Humanresource_skill_requirement.pdf