

Together we aim for a better and healthy environment

PLACEMENT BROCHURE 2019-21



**M.Sc. ENVIRONMENT
MANAGEMENT**

Forest Research Institute (FRI) Deemed to be University
Indian Council of Forestry Research & Education
PO: I.P.E. Kaulagarh Road, Dehradun - 248 195

Layout & Design

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From the Desk of Vice Chancellor



The Forest Research Institute (FRI) established in 1906, is a pioneer institute in the field of forestry and environment research which was given the status of Deemed to be University in December, 1991. This comprehensive course deals with a range of issues related to sustainable management of natural resources and also about climate change, environment impact assessment, biodiversity conservation, sustainable management and many other related issues also constitutes majority in the curriculum.

Excellent infrastructure, state of the art laboratories, qualified, experienced and motivated faculty members are responsible for ensuring all round development of the young talents admitted to the FRI Deemed to be University. Recent and contemporary issues such as climate change, environmental biotechnology and environmental laws are part of the syllabus, which keeps the students abreast with latest developments in these fields. The course thus, prepares professional leaders to fulfil the demands of environment management and conservation in various industries and other organizations. Consequently our best students are now part of some of the leading industries and organizations associated with environment management.

On behalf of this prestigious institute, I take the pleasure of inviting industries, research organizations and other employers to participate in the Campus Recruitment Programmes at University Campus and assess the potential of our budding environment managers who are amongst the best in the country. I am confident that visit to this institute of learning will be of immense mutual benefit. I wish all M.Sc. Environment Management students success in their careers. I am confident that they will make noteworthy progress in their profession and serve the country and the world in the decades to come.

Arun Singh Rawat, IFS

Vice Chancellor,
FRI Deemed to be University

From the Desk of Dean (Academic)



Dear colleagues, entrepreneurs and recruiters, I am happy to introduce you about the FRI and its M.Sc. Environment Management Course. The University is well acclaimed for the forestry and environmental education where every year we enroll students from all over India, SAARC nations and foreign universities for its different courses. Two years M.Sc. Environment Management course is one of the courses where we provide learning to equip the students to fulfil the present industrial needs maintaining highest professional and scientific standards for the environment protection.

The course is designed to give a full exposure about the emerging issues of environment. Apart from classroom teaching, we focus more on practical sessions where students work with selected organisation dealing in the field of environment management, for their dissertation work, study tour and Institutional attachment programme, as an essential part of our course curriculum. First year focuses on knowledge dissemination and providing overall exposure to major disciplines of environment through classroom teaching, the second year offers the students a chance to specialize in their selected disciplines of interest, while the last semester of the course is specifically dedicated for Institutional/research work.

I am delighted to share that many of the students passed out from the university are working with various bodies of Government of India, International agencies and Non-Governmental Organizations in environment and forestry sector. I believe that all students have enough exposure to issues of environment management through professionally designed course curriculum that makes them capable enough and result oriented. The campus provides a rich cross-cultural ambience for students as they are drawn from various parts of India and the world. I believe that the students from FRI Deemed to be University will be pragmatic professionals, competent and sensitive human beings. They will be capable of providing an integrated framework to policy

Development for environmental issues and all other related concerns to be addressed at all the levels. It is my privilege to invite you during placement weeks at FRI Deemed to be University, Dehradun. We look forward to a mutually beneficial, and a long-term collaborative relationship.

Dr. H.S. Ginwal

Dean (Academic),
FRI Deemed to be University



Forest Research Institute

Forest Research Institute (FRI) is a flagship research institute of Ministry of Environment, Forest and Climate Change, Government of India (GoI) under the aegis of Indian Council of Forestry Research and Education (ICFRE). Established in 1906 as Imperial Forest Research Institute, it has a long history of forestry and allied research. FRI enjoys the status of an ISO 9001:2008 certified organisation. Research on every aspect of Environment and Forests like Climate Change, Environment Impact Assessment, Silviculture, Ecology, Hydrology, Plantphysiology, Pathology, Entomology, Chemistry of Forest Products, Non-wood Forest Products, Forest Genetics, Tree Propagation, Forest Soil and Land Reclamation is conducted through projects of regional, national and international importance through its dedicated divisions of the respective disciplines.

The Institute was established basically to organize and lead forestry research activities in the South Asia. The Institute also administered training to forest officers and forest rangers in the country. After Independence, IFRI was aptly renamed as Forest Research Institute and Colleges. After a long way in successfully undertaking the lead role in forestry sciences, in 1986, forestry research set up was re-organized to meet the new dimensions of forestry research and education in the country by bringing the research under the umbrella of ICFRE. To fulfil the needs of forestry and environment professionals in the country, the premiere Forest Research Institute was conferred the status of Deemed University in 1991 by University Grants Commission under section 3 of U.G.C. Act 1956.

OBJECTIVES

- 1 To impart education in different branches of forestry and environment.
- 2 To provide facilities for research and development and dissemination of knowledge in the field of forestry and environment
- 3 To create consciousness about forest and environment among people through forestry extension programs.
- 4 To carry out such other activities as may be necessary and desirable for further safeguarding and protection of environment forests and wildlife.

M.Sc. Environment Management

The essence of this course is to combine academics with real world issues and experiences. The course is structured to offer conceptual knowledge, fieldwork, training and research projects in various fields of ecology and environment management with professional competency. Besides providing fundamental knowledge of environment, ecology, geochemistry and soil sciences, the course emphasizes on systematic exposure of applied aspects of environment management such as carbon markets, environmental economics, climate change modelling, risk analysis, finance and auditing, natural resources management, environmental impact assessment of developmental projects, conservation of biological diversity, restoration of degraded lands, environmental hazards, environmental policy, disaster management, energy management, application of remote sensing and geographical information system in data interpretation, monitoring/mapping, pollution control and abatement.

Special Features of Programme:

- The classroom exposure is adequately supplemented by analytical laboratory inputs including practicals in various discipline of environment.
- Excursions to important institutes, organizations, industries, degraded and restored mine areas are conducted to provide on site exposure to the students.
- The students are also encouraged to take up short duration term papers on diverse subjects during the semesters.
- Fourth and final semester is exclusively utilized for exposing the students to field realities and actual working environment of various organisations working in the field of environmental management and related issues.
- The students are enabled to relate the course content to their work responsibilities throughout the course, so that they can appropriately adapt and use their acquired skills and knowledge in pursuing their future career in private as well as government sectors. Environmental Management course cultivate the ability to recognize uncertainty, envision alternative scenarios, and adapt to changing conditions and information. These knowledge, skills, and mindset translate into a citizenry that is better able to address its common problems and take advantage of opportunities, whether environmental concerns are involved or not.



Course Curriculum

Foundation / Core Courses

REMOTE SENSING AND GEOGRAPHICAL INFORMATION SYSTEM

- History of Remote Sensing
- Aerial remote sensing, Aerial photography
- Elements of photo-interpretation
- Satellite remote sensing
- Visual & digital interpretation
- Remote sensing for forestry
- Geographical Information System (GIS)
- Global Positioning System (GPS)

ECOSYSTEM ANALYSIS

- Ecosystem concepts, Major ecosystems of the India and world
- Major biomes of India and the World
- Biogeography, Endemic, Endangered Species
- Forest types of India
- Agro-ecological and floristic zones
- Litter production and decomposition
- Ecological and social impacts of resource depletion
- Land degradation, deforestation, cybernetics
- Energy resources and energy use efficiency

CONSERVATION ECOLOGY

- Postulates of conservation biology
- Invasion of unoccupied ecological niches, Genetic plasticity
- Conservation laws, policies and efforts
- Adaptive radiation & Natural selection
- Inventorization and monitoring
- Ecosystem fragmentation and edge effects

FUNDAMENTALS OF ECOLOGY

- Autecology, Synecology
- Population and Community dynamics
- Ecosystem structure and function
- Ecosystem components
- Species interactions; Vegetation Sampling; Nutrient cycles



- Major ecosystems of India and world
- Ecosystem analysis
- Structure and composition of community

ENVIRONMENT PHYSICS AND BIOGEOCHEMISTRY

- Structure of the atmosphere
- Monsoon systems, Transport and deposition
- Processes, Cloud classification
- Dust and aerosols in the atmosphere.
- Soil Science and geochemistry Chemistry of hydrosphere
- Mineralogy

ENVIRONMENT IMPACT ASSESSMENT

- Prediction and assessment of impact on the land, air, water, noise, biological and socio-economic environments
- Methods of EIA
- Public participation and preparation of environmental decision-making
- Total Quality Management(TQM)
- Concepts, techniques and implementation of EIA
- ISO 9001, ISO 14001
- Environmental auditing and monitoring

RESTORATION ECOLOGY

- Definition, aims, objectives and principles,
- Physical, chemical and biological restoration
- Restoration of natural resources, Biodiversity
- Microbial management
- Bio-fertilizers for restoring soil fertility
- Sustainable development
- Rehabilitation of degraded landscapes
- Global change and sustainable issues
- Biotechnology for restoration of degraded land
- Environmental education and its role in conservation and restoration

FORESTRY FOR SUSTAINABLE MANAGEMENT

- Importance of systematic botany in forestry
- Overview of Forestry in India: Evolution of forest policy
- Identification of Family Genus & Species using Flora
- Aims and objectives of Tissue Culture for genetic improvement through clonal propagation
- Definition of silvics and silviculture
- Forest Mensuration
- Agencies causing forest damage
- Non Wood Forest Products: Definition, Importance



- Environmental laws with reference to conservation of forest
- Forest Protection

GLOBAL CLIMATE CHANGE AND FOREST

- Earth's Climate system, Past, present & future climate
- Climate Change: Impacts, Adaptation and Vulnerability
- India specific impact on climate change
- The greenhouse effect Climate change mitigation
- Global Carbon cycle, Carbon sinks and sources
- Policy prospective: UNFCCC, role & function of IPCC
- Kyoto Protocol and CDM
- The energy perspectives

ENVIRONMENT STATISTICS AND COMPUTER APPLICATION

- Basic Statistics: Statistical methods for environmental systems
- Probability and probability distributions
- Testing hypothesis
- Sampling
- Time series
- Ecological economics
- Analysis of environmental data
- Computer application
- Windows XP MS Word, MS Excel, MS Powerpoint
- Adobe PageMaker and Adobe Photoshop

ENVIRONMENT MICROBIOLOGY

- Microbes and environment
- Classification, occurrence
- Photoautotrophs, Organotrophs, Chemolithotrophs
- Soil microorganisms & their interaction: soil borne diseases
- Microbial treatment of soil pollution
- Microbial mining and metal recovery
- Waste water treatment
- Human environment and diseases

DISASTER MANAGEMENT

- Natural Disasters, all natural and man-made disasters
- Measurement of responses of disasters, community reactions to disaster
- Forecasting and warning systems of disasters
- Disaster management
- Disaster education, Alternatives & new directions
- Rehabilitation Programme

FOREST ECONOMICS



- Micro and Macro Economics, Law of diminishing marginal utility, Market equilibrium
- Production Possibility curve
- Internal Rate of Return (IRR), Costs and revenues, Opportunity Cost, Interest, Rent, Wages, Sensitivity analysis.
- Economics of air, water and energy resources
- Project formulation, implementation, monitoring and Evaluation

ENVIRONMENT POLLUTION MANAGEMENT

- Definition, Pollution of the biosphere
- National and International environmental standards
- Air pollution: Abatement technologies including vehicular emissions
- Water resources and their conservation and Management, treatment of sewage water and ground water resource
- Eutrophication, causes, consequences and control
- Conservation and management of non-renewable fossil fuel resources
- Soil pollution: soil pollutants their sources & type
- Noise pollution: Noise pollution level
- Sound Exposure level, Traffic Noise Index. Noise sources

ENVIRONMENT POLICY, LAW AND SOCIOLOGY

- Environmental legislation for protection of species and natural resources
- International Environmental legislation, protocols, treaties, conventions, standards etc.
- Environmental Standards in India.
- Public Interest litigation (PIL)
- Evaluation of Indian society, Ideologies, Social obligation
- Human rights in relation to environment.
- Environmental needs & social justice

FOREST CERTIFICATION

- Forest certification, labelling, Standards.
- Certification process, Accreditation, Auditing process, National and International schemes.
- NTFPs and their role in forest management, certification of NTFPs.
- Framework for forest certification in India.

Elective Courses

NATURAL RESOURCE CONSERVATION & MANAGEMENT

- Forest resources and mineral resources
- Public policy, Law and public involvement
- Economics of mineral resources, distribution and management.
- Soil structure and use, water resources and Management



- Current issues, challenges and innovative solution for society and natural resources
- Law and public involvement
- Wildlife resources, restoration of wildlife
- Natural management

BIOSTATISTICS AND COMPUTER APPLICATION

- Introduction, importance of biostatistics, Sampling and sample design
- Classification and tabulation of data
- Skewness and computer application.
- Measures of central tendency and dispersion
- Student test, F'Test, Chi-square test, ANOVA, Correlation and Regression
- Computer Application. Windows XP. MS Office, Adobe PageMaker
- Statistical Software and application-SPSS, Statistica etc.

BIODIVERSITY MONITORING AND MANAGEMENT

- Biodiversity Inventorization, monitoring and characterization
- Documenting and mapping of biological diversity
- Conservation sites characterization
- Conservation status assessment. Loss of biodiversity
- Techniques and tools of Biodiversity Impact
- International Conventions and initiatives

Wildlife and Habitat Management

- Objective of wildlife conservation and
- Wildlife biology
- Wildlife Behaviour
- Ecodevelopment and Habitat Management
- Wildlife Tourism
- Population dynamics

SOLID WASTE MANAGEMENT

- Municipal Solid waste management in India and problems
- Solid waste disposal
- Pyrolysis and incineration
- Industry specific solid waste management
- Agriculture, process industry, mineral and metallurgical industry
- Disposal of industrial and mill tailings
- Recycling of solid waste
- Sanitary land fill planning



REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM-ADVANCES AND APPLICATION IN ENVIRONMENT MANAGEMENT

- Conversion of digital numbers to spectral radiances and Top Atmosphere(TOP)reflectance
- Spectral indices and their use in vegetation characterization
- Multi-resolution and multi-sensor images fusion
- Sub-pixel classification techniques; Principles of high resolution, microwave, hyper spectral and LIDAR data processing.

PLANT TAXONOMY

- Importance of plant taxonomy
- Taxonomy in relation to: Anatomy, Chemotaxonomy, Numerical taxonomy, Cytotaxonomy, Molecular taxonomy, Palynology, Ecology, Ethanobotany.
- Phytogeography, GIS tools use in Taxonomic explorations
- Plant conservatories, Taxonomic Keys.
- International code of Botanic Nomenclature

FOREST, SOCIETY AND CLIMATE CHANGE

- Conceptual understanding of forest, differences between forest and plantation.
- Green House gas and global warming. Forest and Soil as sources or sink of carbon
- Role of forest in carbon management.
- Forest cover mapping
- Conceptual understanding of climate and climate change, UNFCCC, UNEPREDD+
- People and forest

ENVIRONMENT IMPACT ASSESSMENT

- Elaboration of steps in traditional EIA process
- Strategic Environmental Assessment
- Environmental Economics
- Life cycle assessment approach in impact assessment
- Impact assessment for addressing climate change.

Urban Forestry

- Introduction to Dendrology
- Basics of Tree Biology
- Forest Entomology and Pathology
- Arboriculture Techniques
- Principles of Urban Forestry
- Landscape Architecture, Land Use Planning and Policy



Institutional Attachment

- Ashoka Trust for Research in Ecology & Environment(ATREE),Bengaluru
- Bharat Petroleum Corporation Limited (BPCL),Mumbai
- Bharat Heavy Electricals Limited (BHEL), Haridwar
- Central Ground Water Board (CGWB), New Delhi
- Centre for Environment Education (CEE),Anmedabad
- Central Pollution Control Board (CPCB), New Delhi
- Central Water Commission (CWC), New Delhi
- Central Fuel Research Institute (CFRI),Dhanbad
- Centre for Science & Environment(CSE),NewDelhi
- CouncilforAdvancementofPeople'sActionandRuralTechnology(CAPART),NewDelhi
- Delhi State Environment Department, New Delhi
- Development Alternatives, New Delhi
- Environment Protection Training & Research Institute(EPTRI),Hyderabad
- Emergent Ventures India Pvt. Ltd., NewDelhi
- Federation of Indian Chambers of Commerce and Industry (FICCI), New Delhi
- Indian Institute of Forest Management (IIFM), Bhopal
- Indian Institute of Management (IIMs)
- Indian Institute of Science (IISc), Bengaluru
- Indian Institute of Technology (IITs)
- Indian Institute of Remote Sensing (IIRS), Dehradun
- Indian Meteorological Department(IMD),New Delhi
- Indian Oil Corporation Limited(IOCL)
- Integrated Research and Development (IRADe), New Delhi
- National Centre for Antarctic and Oceanic Research (NCAOR), Goa
- National Environmental Energy Research Institute (NEERI)
- National Institute of Hydrology(NIH),Roorkee
- National Institute of Oceanography(NIO),Goa
- National Institute of Disaster Management (NIDM), New Delhi
- National Productivity Council (NPC), New Delhi
- Oil & Natural Gas Corporation(ONGC)
- Shriram Institute for Industrial Research, New Delhi
- Sulabh International Social Service Organization, New Delhi
- The Energy and Resources Institute(TERI),New Delhi
- Tata Steel Ltd, Jamshedpur
- TUV Nord and TUV Sud, New Delhi
- World Wide Fund for Nature (WWF) New Delhi



Our students as strength for organisations

List of Potential Employers

- | | |
|--|---|
| Wildlife Trust of India, Noida | Reliance foundation, Maharashtra |
| Climate Change Research Institute, Delhi | Ramya Technologies, Delhi |
| BILT, Gurugram | Rain Forest Research Institute, Jorhat, Assam |
| Pragya-India, Gurgaon, Haryana | SGS India, Noida |
| GICIA India Pvt. Ltd. Noida (UP), India | Amity University, Noida |
| J.M. EnviroNet Gurugram | SENES Consultants India |
| Himalayan Institute for Ecology, Environment and Development, Dehradun | Sam Higginbottom Institute of Agriculture, Technology and Sciences, Allahabad |
| Direct Dialogue Initiative, Bangalore | Schumacher Centre, Delhi |
| Deloitte, India | GIZ, Delhi |
| Watershed Organisation Trust (WOTR), Pune | The Smart Cube, India |
| Forest Research Institute, Dehradun | Tech Mahindra, Pune |
| Foundation For Ecological Security(FES), Gujarat | The Louis Berger Group, Mumbai |
| Goa Institute of Management, Goa | University Malaysia Pahang, Malaysia |
| Global Agrisystem Pvt.Ltd, Delhi | Terracon Ecotech Pvt.Ltd., Mumbai |
| HCL Company, Lucknow | Ultratech Cement Ltd. |
| INDUS Environmental Pvt.Ltd., Delhi | UNDP, India |
| Indian Institute of Technology, Bombay | URS, India |
| ITC Limited, Kolkata | University of New Orleans, U.S.A. |
| Iora Ecological Solutions,Delhi | Worldview Impact, India |
| IMMT, Bhuvaneshwar | University of Saskatchewan, Canada |
| Indian Institute of Forest Management, Bhopal | UNICEF, India |
| Kanakia Group, Maharashtra | Wildlife Institute of India, Dehradun |
| Lucidlogix Technologies Ltd. | University of Nevada Las Vegas, U.S.A. |
| Nature Conservation Foundation, Mysore Area, India | WWF-India, Delhi |
| Macro Infotech, Karnataka | IUCN, Delhi |
| Nature Forever Society, Bengaluru | Winrock International India, Delhi |
| RS Envirolink, Gurugram | National Institute of Hydrology, Roorkee |

Field Exposure

- | | |
|--|---|
| • Venketeshwar Fibre Udyog Limited, Bengaluru | • Indian Institute of Management, Kashipur |
| • Ashoka Trust for Research in Ecology and the Environment (ATREE),Bengaluru | • Corbett Tiger Reserve, Ramnagar |
| • Indian Institute of Sciences (IISc), Bengaluru | • Colgate-Palmolive Industry, Baddi |
| • IWST, Bengaluru | • Vardhman Group of Companies, Baddi |
| • THDC India Limited, Rishikesh | • Central Effluent Treatment Plant, Baddi |
| • Institute of Forest Genetics and Tree Breeding, Coimbatore | • Mahatma Gandhi Institute of Rural and Energy Development, Bengaluru |
| • National Institute of Oceanography, Goa | • Vrindavan Gardens, Mysore |
| • National Centre for Antarctic and Ocean Research (NCAOR), Goa | • Parambikulam Tiger Reserve, Kerala |
| | • Hindustan Unilever Ltd., Baddi |
| | • Topslip Tiger Reserve, Tamil Nadu |

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Field of interest

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Field of interest

Soil Science, Remote Sensing
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Field of interest

EIA, Environment Pollution
Monitoring and Solid Waste
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Field of interest

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Management, Prevention &
Mitigation measures of Soil
Pollution.



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Field of interest

Pollution & Solid Waste
Management, Climate Change,
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Field of interest

Remote Sensing & GIS, Forest
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Monitoring.



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Field of interest

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Field of interest

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Field of interest

Biodiversity Conservation,
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& Management, Traditional
Knowledge.



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Field of interest

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Fields of Interest

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Fields of Interest

EIA, Environment Statistics,
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Fields of Interest

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Natural Resource Conservation
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Fields of Interest

Biodiversity and Natural
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Fields of Interest

Sustainability of Social and
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Change Adaptation



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Fields of Interest

EIA, Biodiversity Conservation,
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Fields of Interest

Disaster Risk Management,
Climate Change, Environment
Pollution Management and
Environment Sociology



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Fields of Interest

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Fields of Interest

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Biodiversity Conservation



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Fields of Interest

Climate Change and
Restoration Ecology

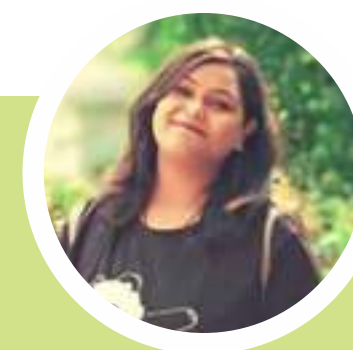


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