



SMART INDIA
HACKATHON '17

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Department of Biotechnology

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Department of Biotechnology

The Department of Biotechnology (DBT) is an Indian government department, under the Ministry of Science and Technology responsible for administrating development and commercialization in the field of modern biology and biotechnology in India. They have chosen 17 problem statements from their department for which they seek digital solutions in Smart India Hackathon 2017.

[Android version of ePromis software.](#)

#DBT17

Total Submissions : 6

Department of Biotechnology has online software for submission of R&D proposals and management of grant –in-aid system. Department is expecting to develop an android based light version of ePromis software.

Sample data required: Yes; DBT will provide all the details and share the sample data.

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[Biotech Industrial Training Program app.](#)



eligibility criteria. 2. Processing of applications 3. Online single session multiple choice exam for screening of candidates. 4. Interviewing applicants. 5. Matchmaking of companies requisitions with student profiles. 6. Placement of selected candidates in companies for training 7. Monthly feedback and evaluation of about 900 students 8. Disbursement of trainee stipend/ company bench fee 9. Monitoring. 10. Submission of project report 11. Issue of certificate. 12. Follow up regarding placement. Department needs android based mobile app for effective management of BITP program.

Sample data required: Yes; DBT will provide the format as well as details of parameter for developing mobile app.

Details of Short-Term Trainees in National Institute of Biomedical Genomics 2012

https://data.gov.in/catalogs/ministry_department/national-institute-biomedical-genomics-nibmg-kalyani

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[Online feedback of participants, Guest faculty, Course Director for DBT sponsored short term training programs.](#)

#DBT15

Total Submissions : 6

Department is providing support for organization of short term training programmes for upgrading the skills of mid-career scientists from R & D institutions and faculty involved in undergraduate and postgraduate teaching in multidisciplinary areas of biotechnology. These specialized training courses are organized in colleges, universities and premier R&D institutions for duration of 2-4 weeks with 15-20 participants. Department requires feedback of participants, guest faculty and course Director for final settlement of accounts of training program. Department needs android based mobile app for online feedback.

Sample data required: Yes; DBT will provide the copy feedback format for developing mobile app.

List of Various Workshops Organized At Regional Centre For Biotechnology During 2009 To 2012

<https://data.gov.in/catalog/list-various-workshops-organized-regional-centre-biotechnology>

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[Android based mobile app for identification of impersonation in exams conducted by DBT for selection of JRF/ JNU-CET / BITP.](#)

#DBT14

Total Submissions : 15



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[Marine bio-resources inventory app.](#)

#DBT13

Total Submissions : 7

India, with its tropical climate, vast coastline of about 7,516.6 km, island territories and diverse marine ecosystems of coral reefs, sea-grass meadows, mangroves and Open Ocean is unique in its exceptional richness of marine biodiversity. Department requires digital inventorization (mobile app) of marine Bio-resources in country, its effective exploration and sustainable utilization.

Sample data required: no

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[Biotech history app highlighting landmark achievements.](#)

#DBT12

Total Submissions : 4

The literature and information exclusive on landmark achievements in area of Biotechnology are available on various websites and in e-Books. An android based mobile app is required for comprehensive information on history of Biotechnology (Ancient to modern days) with details of Indian contributions.

Sample data required: Yes; To be sourced from websites, books.

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[Android based app for quick access of R&D facilities, resources established by DBT in different institutions, Biotech Park and Incubators located in various parts of Country.](#)

#DBT11

Total Submissions : 6

Department has funded large number of R&D projects in universities, R&D institutes for establishment of R&D infrastructure (Equipment) in Biotechnology. We require android based app with key based search options for quick access of details of facilities available in the different institutions in the country.



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[Detecting common key words in project proposals submitted by Principal Investigators to different funding agencies to detect overlap.](#)

#DBT10

Total Submissions : 5

The Department of Biotechnology (DBT), Ministry of Biotechnology is supporting large number of R&D projects in multidisciplinary area of Biotechnology. Other funding agencies such as DST, CSIR are also supporting projects in same areas etc. An android based apps is required with key based search option in inter and intra database to detect overlap in the objectives, title, theme, anticipated outcomes, name of PI, outcome of last projects sanctioned or submitted by PI to different funding agencies..

Sample data required: Yes; Department of Biotechnology and Department of Science and Technology will provide the internal data base details, format and sample data for developing app.

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[Dashboard for theme based aggregation of projects funded by DBT e.g. projects funded by different groups on tuberculosis \(new drug development, diagnostic kit, vaccine etc.\).](#)

#DBT9

Total Submissions : 3

The Department of Biotechnology (DBT), Ministry of Biotechnology is supporting large number of R&D projects in mission mode. The ePromis database contains all the details technical as well as financial details of the projects funded by the Department in mission mode. Department requires a simple dashboard for theme based aggregation of project details.

Sample data required: Yes; Department will provide the ePromis software details, format and sample data for developing app.

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[Android based app for sanctioned positions, filled positions, vacancies, due to retire for efficient manpower management.](#)

#DBT8

Total Submissions : 6



Sample data required: Yes; Department will provide the format and sample data for developing app.

Various Posts At National Institute of Animal Biotechnology, Hyderabad	https://data.gov.in/catalog/various-posts-national-institute-animal-biotechnology-hyderabad
Resource Personnel At Regional Centre For Biotechnology	https://data.gov.in/catalog/resource-personnel-regional-centre-biotechnology

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[Android based app for tracking purchase, use and disposal of recurring and non-recurring assets purchased by the department.](#)

#DBT7

Total Submissions : 10

Department is regularly procuring non-recurring and recurring items for various activities and required a mobile based app for keeping records of purchase, items issued and disposal for proper management.

Sample data required: Yes; Department will provide the format and sample data for developing app.

Scientific Instruments And Infrastructure At Regional Centre For Biotechnology	https://data.gov.in/catalog/scientific-instruments-and-infrastructure-regional-centre-biotechnology
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[Online feedback of post graduate students in biotechnology.](#)

#DBT6

Total Submissions : 12

Department has developed a software viz., PROMPT for online feedback of post graduate students admitted in DBT supported 71 teaching programs running in various parts of country. Department needs android based mobile app (light version) of PROMPT software.

Sample data required: Yes; Department will provide the soft copy of software with all details and share the sample data.



#DBT5

Total Submissions : 8

Every university needs 75% to 80% attendance of students for appearing in university exams. Funding agencies also need attendance record for disbursement of grants. The Department requires android based mobile app for keeping real time attendance record of students in DBT supported M.Sc./ M.Tech. Teaching Programs.

Sample data required: Yes; DBT will provide list of universities and course offered.

Details of PhDs from Rajiv Gandhi Centre for Biotechnology as on 27th June 2013

<https://data.gov.in/catalog/details-phds-rajiv-gandhi-centre-biotechnology-27th-june-2013>

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[Explore videos/expert lectures, interviews of nobel laureates, Bhatnagar awardees, Padma awardees, ted talks etc.](#)

#DBT4

Total Submissions : 7

Biotech students visit large number of websites to watch online biotech videos available in open source from Biotech community in India requires a mobile app with key based search options from database of videos of expert lectures, interviews of noble laureates, Bhatnagar awardees, Padma awardees ted talks etc.

Sample data required: Yes; Data to be sourced from respective websites, YouTube, official website of Nobel Prize etc.

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[Opportunities for fellowships at doctoral and post-doctoral level in Country and in overseas institutions](#)

#DBT3

Total Submissions : 5

Research scholars willing to join national and or foreign universities, R&D institutions have to visit web sites for searching the procedure for admission, suitable fellowship opportunities at doctoral and postdoctoral level. Scholars need single window platform about courses, fellowship opportunities in areas of Biotechnology offered by national and international agencies/institutions. Department is requires an android based app to provide information about national and overseas universities and R&D institutions with Ph.D and post doc vacancies procedure and fellowships in Biotechnology.

Data: Data to be sourced from websites of universities and R&D institutes.



Number of Ph.Ds produced in life sciences and biotechnology per year by different universities/institutions in the country.

#DBT2

Total Submissions : 9

The Department requires consolidated details of Ph.D. produced by Indian Universities for correct assessment of demand and supply of trained manpower in areas of Biotechnology. This kind of app will provide quick information of trained manpower generated by universities located in particular states/Zones in India and will be useful in making policy decisions regarding expansion of R&D infrastructure in universities/R&D institutes and increase in number of Ph.Ds.

Sample data required: No

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Biotechnology expertise available in different universities/institutions in the country.

#DBT1

Total Submissions : 6

Students to facilitate decision making for choosing appropriate supervisor & institution and funding agencies require consolidated information about scientific expertise available in country in different areas of Biotechnology to peer review, expert meeting etc. Department is expecting to develop an android based mobile app for quick access of details of scientific expertise available in universities / R&D Institutions in India. Data to be collected from websites of universities and R&D institutions. The app should cover name, designation of expert, area of expertise and affiliation.

Sample data required: Yes; The information about expertise is available on respective websites of universities and R&D institutes.

Resource Personnel At Regional Centre For Biotechnology	https://data.gov.in/catalog/resource-personnel-regional-centre-biotechnology
Profiles of Research Fellows in National Institute of Biomedical Genomics 2012	https://data.gov.in/catalog/profiles-research-fellows-national-institute-biomedical-genomics-2012

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Last Updated: January 3, 2017 at 2:44 pm -- innov-web-sp-83-196.mygov.in

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