Sant Dynaneshwar Shikshan Sanstha's

Annasaheb Dange College of Engineering and Technology, Ashta

Department of Aeronautical Engineering

Alumni Interaction

Alumni: Mr. Vikas Dadasaheb Patil,
Repair Engineer, Quest Global, Belgaum

Topic: Job profile of a repair engineer

Date: 3rd April 2021

Time : 11:30 AM

Register at

https://forms.gle/j8avimypp1iYNmz57

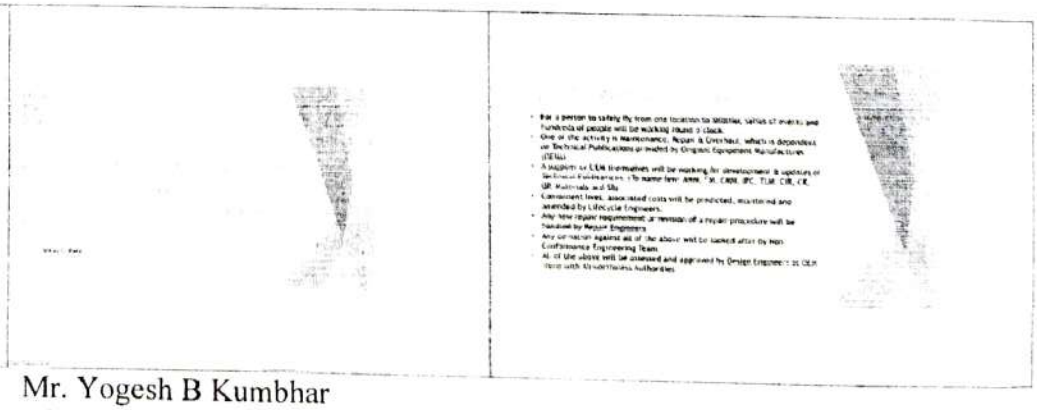
Sant Dnyaneshwar Shikshan Sanstha's

Annasaheb Dange College of Engineering and Technology, Ashta

(Approved by AICTE, New Delhi, Gov. of Maharashtra, and affiliated to Shivaji University Kolhapur)

Department of Aeronautical Engineering

Date: 4th April 2021

Title of Event:	Job opportunities in MRO engineering
Objective/s:	The objective of this event is to inform students of aeronautical engineering about the Job role of an repair engineer and get their doubts cleared.
Duration of the event :	3rd April 2021(One day)
Details of Resource Person/s:	**Mr. VIKAS DADASAHEB PATIL** Engineer, Repair Engineering (Mechanical Systems/Design & Development Design Change Assessments-Design Engineer), QuEST Global Engineering Services Pvt. Ltd. (Alumni Aero : 2017-18 Batch)
Co-organizer/ Sponsor (if any):	ADCET Alumni Cell
Target Audience:	Third year and final year students from department of Aeronautical Engineering
No. of Attendees :	20
• **Contents:**	Vikas dicussed about: Aero-Engine component design philosophy, material compositions, and their assembly-disassembly procedures, Engineering drawing reading, graphical illustrations and knowledge of RR overhaul support network, Repair techniques like metal joining techniques, fastening, patch repairs, plasma spray, composite repairs and their subtypes on the Aero-Engine components,Repair Development Process for Aero-Engine Repairs.
Photo/s:	
Details of Coordinator/s:	Mr. Yogesh B Kumbhar Alumni Coordinator, Aeronautical

Coordinator

Head of the Department

Date: 29/3/2021

NOTICE

All the students of SY,TY and B.Tech are hereby informed that, an alumni interaction is organized in the department. Details are as follows,

Alumni: Mr. Vikas Dadasaheb Patil,
Repair Engineer, Quest Global, Belgaum

Topic : Job profile of a repair engineer

Date: 3rd April 2021

Time : 11:30 AM

Interested students may register at

https://forms.gle/j8avimypp1iYNmz57

Coordinator

Alumni – In-charge

HoD

Date : 29/3/2021

To,

The head of the department,

Aeronautical Engineering Department,

Annasaheb Dange College of engineering and technology, Ashta, Sangli.

Subject: Application for seeking permission to conduct alumni interaction event

Sir,

I am Mr. Y.B. Kumbhar , working as an assistant professor in Aeronautical Engineering Department, ADCET, Ashta.

I am planning to conduct an alumni interaction event on "Job profile of a repair engineer " By inviting our alumni Mr. Vikas Dadasaheb Patil on 3rd April 2021 at 11:30 AM.

This event is planned for all classes (SY, TY and B.tech)

Please permit me to conduct the same.

Thanking you,

Yours faithfully,

Name and sign of the co-ordinator

Mr. Y. B. Kumbhar

Permitted

VIKAS DADASAHEB PATIL

B.E. (Aeronautical Engineering)

Contact No: (+91) 9405555017 / 8999132739

Email id: vikaspatil702@gmail.com

LinkedIn: vikas-patil-899311116

CAREER OBJECTIVE:

To contribute my part to human development through the domain of Aviation and Aerospace Sector.

ACADEMIC QUALIFICATION:

- **B.E. (Aeronautical Engineering):** Completed in the year 2018 with **79.46%** *(First Class with Distinction)* at Shivaji University, Kolhapur (College: ADCET, Ashta)
- **HSC:** Completed Higher Secondary Examination in the year 2014 with **81.69%.**
- **SSC:** Completed the Secondary School Certificate in the year 2012 with **93.45%**

WORK EXPERIENCE:

Organization:	QuEST Global Engineering Services Pvt. Ltd.
Duration:	August 2018 – Till date (2 Years and 3 Months)
Designation:	Engineer, Repair Engineering (Mechanical Systems/Design & Development Design Change Assessments-Design Engineer)
Company Profile:	Currently working as Repair Engineer at QuEST Global Engineering Services Pvt. Ltd in the domain of Rolls-Royce Civil Large Aero-Engines After-Market Services.

CURRENT JOB PROFILE & KNOWLEDGE:

- Support engine overhaul by providing repair solutions for various non-conformances to salvage engine components.
- Working in a significantly challenging work environment with narrow timeline of work.
- Working coordinated with overhaul bases around the globe for Rolls-Royce Civil Large Aero-Engines to support them in difficulties during repair/inspection/assembly/disassembly procedures.
- Failure/ Non-conformance Investigation.
- Technical Report writing.
- Data analysis and computation.
- Inspection and Repair procedure (technical content) creation and revision.

CURRENT JOB EMPLOYEE RECOGNITION AWARDS:

- Nominated for **'Star Performer of the Year'** award for the year 2020 for outstanding efforts in the Business Impact made, Quality of the Deliverables and demonstrating culture pillars of the organization through the performance during the year 2020.
- Gained Signatory as a **'Technical Reviewer'** in July 2020 within very short span of time.

- Strong contender for the award of '**Best Trainee Debutant**' award for the year 2019 for exceptional efforts in delivery at Belgaum DU.
- Received '**On-the-Fly**' awards (QuEST employee recognition award) in months of Sept. 2020, May 2019 and Jan. 2019 for exceptional efforts in the overhaul support and non-conformance engineering (Technical Variances).

ACQUIRED SKILLSET FROM CURRENT JOB:

- Aero-Engine component design philosophy, material compositions, and their assembly-disassembly procedures.
- Engineering drawing reading, graphical illustrations and knowledge of RR overhaul support network.
- Repair techniques like metal joining techniques, fastening, patch repairs, plasma spray, composite repairs and their subtypes on the Aero-Engine components.
- Repair Development Process for Aero-Engine Repairs.

SOFTWARE SKILLS:

- **ANSYS Mechanical APDL and ANSYS Workbench:** Static Structural, Steady State Thermal, Modal, Buckling, Multiphysics and Explicit Dynamic analysis along with advanced composite material modelling and analysis using ACP.
- **Dassault Systems-CATIA V5:** Sketching, Part Design and basic touch of Assembly Design, Drafting and Surface Design.
- **Autodesk- AutoCAD 2014**
- **Scilab 6.0:** Basic touch for application of the tool in mathematical calculations.
- **MS-Office Tools** (MS Word, MS Excel and MS PowerPoint)

ONLINE CERTIFICATION COURSES:

- **Advance Aircraft Maintenance** conducted by National Programme on Technology Enhanced Learning (NPTEL), IIT, Kanpur in Jan - May 2019 with securing Rank in **Top 5% of Candidates**.
- **Design of Fixed Wing Unmanned Aerial Vehicles** conducted by National Programme on Technology Enhanced Learning (NPTEL), IIT, Kanpur in Aug - Nov 2018.

INDUSTRIAL TRAINING:

- Worked as Project Intern at **Composite Product Development Centre, Advanced System Laboratory, Defence Research Development Organization, Hyderabad** from Dec. 2017 to Jan. 2018.
- Industrial training at **Skyrider Automotive, Bhubaneshwar** on **RC Aircraft Design and Fabrication** from June 2017.

WORKSHOPS & SHORT TERM COURSES:

- **ANSYS Advanced Composite Post-Processor (ACP)** STC conducted by CTL, Rajarambapu Institute of Technology, Rajaramnagar (June 2019)
- **ANSYS Structural (Mechanical APDL & Workbench)** STC conducted by ATC-IGTR, Kolhapur (July 2018)
- **Advanced Ultrasonic Testing** STC conducted by ISNT, Pune (Jan. 2017)
- **Recent Advances in Composites** conducted by Dept.of Aero. Engg. ADCET, Ashta (Sept. 2016)
- **Astroprojects** conducted by SPATS at NSSC, IIT, Kharagpur (Sept. 2016)
- **Design Structures** conducted by Altair Engineering at NSSC, IIT, Kharagpur (Sept. 2016)
- **Introduction to Non- Destructive Testing** conducted by ISNT, Pune (Aug. 2016)
- **Arduino & Embedded C** conducted by Dept. of ETC Engg., ADCET, Ashta (July 2016)
- **Antenna Design and Fabrication** conducted by Dept. of ETC Engg., ADCET, Ashta (Feb. 2016)
- **Introduction to CATIA V6** STC conducted by Dept. of Mech. Engg., ADCET, Ashta (Jan. 2016)
- **Introduction to MATLAB R2010a** conducted by Dept. of Aero. Engg. (Nov. 2015)

PERSONAL DETAILS:

Name	Vikas Dadasaheb Patil
Date of Birth	09th February 1997
Gender	Male
Languages Known	English, Marathi, Hindi, Kannada.
Nationality	Indian
Permanent Address	Plot No. 18, Sadguru Colony, Sundar Nagar, Nesari, Tal- Gadhinglaj, District-Kolhapur, Maharashtra, PIN: 416504.

DECLARATION:

I Vikas Dadasaheb Patil state that all the above information given above is to the best of my knowledge.

Place:

Date:

(Vikas Dadasaheb Patil)

EXTRA ACADEMIC ACTIVITIES:

Major Projects:

- **"Fabrication of Corrugated Composites for Morphing Wing Applications"**. Development of corrugated composite structure of carbon-polyurethane system which is flexible and possibly future aerospace material and useful for Morphing UAVs.
- **"A Study on Lap Shear Strength of Co-Cured & Co-Bonded Single Lap Joint of Metal and Polymer Matrix Composites"** Design and Development of Database for PMC-Metal lap joints and selection of best possible way to bond metal and polymer matrix composites using adhesives.

Mini Projects:

- **"Fabrication of Fibre Metal Laminates of Magnesium and it's testing".** Development of light weight hybrid laminate of Magnesium and E-Glass epoxy and its testing.
- **"Design and Fabrication of a Composite Wing".** Design and analysis of a composite wing for a two seat trainer aircraft followed by fabrication and testing of small scale wing.

SEMINARS:

- **Space Tourism** Study of a newer version of tourism and various firms working in the market.
- **Marvellous Orbiter Mission** Study of MOM launched by ISRO in 2014.
- **LCA- Tejas** Review of need, design and performance of Light Combat Aircraft.
- **SAGE-ITD** Review of green aero-engine technologies under research.

ACHEIVEMENTS:

- Shortlisted for National Aircraft Conceptual Design Competition (NACDeC 2017-18) conducted by AeSI, Mumbai.
- Won Paper Presentation competitions in Discovery 2K17 and Discovery 2K15, Runner up in Discovery 2K16 conducted at ADCET, Ashta.
- Won Shivaji University Merit Scholarship for years 2015, 2016 and 2017.
- Won Best Article Award in Shivaji University, Kolhapur in Magazine Competition, 2015.
- Qualified for Award Scholarship for Higher Education under Innovative in Science Persuit for Inspired Research (INSPIRE), 2014.
- Won various College, District and State Level General Knowledge, Quiz and Essay writing Competitions.

Yogesh Kumbhar <ybk_aero@adcet.in>

Invitation for Alumni Interaction

3 messages

Yogesh Kumbhar <ybk_aero@adcet.in> Mon, Mar 29, 2021 at 3:21 PM
To: Vikas Patil <vikaspatil702@gmail.com>

Dear Vikas,

As per our telephonic discussion, I want to invite you for alumni interaction on 3rd April 2021, on the topic "Job profile of a repair engineer at Quest Global"

Yogesh Kumbhar

PS: Find attached SY, TY amd B.Tech

170 Credits Autonomous Curriculum.pdf
772K

Vikas Patil <vikaspatil702@gmail.com> Mon, Mar 29, 2021 at 3:28 PM
To: Yogesh Kumbhar <ybk_aero@adcet.in>

Hello Sir,

Greetings!

Thank you.

I will be happy to share my experiences with my fellow juniors.

I accept the invitation.

Regards,
Vikas D Patil
[Quoted text hidden]

Yogesh Kumbhar <ybk_aero@adcet.in> Mon, Mar 29, 2021 at 3:30 PM
To: Vikas Patil <vikaspatil702@gmail.com>

Thank you for your response.
[Quoted text hidden]

- For a person to safely fly from one location to another, series of events and hundreds of people will be working round o'clock.
- One of the activity is Maintenance, Repair & Overhaul, which is dependent on Technical Publications provided by Original Equipment Manufactures (OEMs).
- A supplier or OEM themselves will be working for development & updates of Technical Publications. (To name few- AMM, EM, CMM, IPC, TLM, CIR, CR, OP, Materials and SB)
- Component lives, associated costs will be predicted, monitored and amended by Lifecycle Engineers.
- Any new repair requirement or revision of a repair procedure will be handled by Repair Engineers.
- Any deviation against all of the above will be looked after by Non-Conformance Engineering Team.
- All of the above will be assisted and approved by Design Engineers at OEM along with Airworthiness Authorities.

1.	Drawing Reading	Engineering Graphics (Sem I)
2.	Material Science & Mechanics	Aerospace Materials and Structures (Sem IV), Material Testing & Characterization (PE 1), High Temperature Materials (PE 4)
3.	Production Technology	Aircraft Production Technology (Sem III)
4.	Aircraft Structures	Aerospace Materials and Structures (Sem IV)
5.	Aircraft Propulsion	Air Breathing Propulsion (Sem IV)
6.	Mechanics	Engineering Mechanics (Sem I & II), Mechanics of Materials (Sem III), Aircraft Structures (Sem V), Vibration and Structural Dynamics (Sem VI), Finite Element Methods (Sem VII), Advanced Mechanics of Solids (PE 1), Experimental Stress Analysis (PE 3)

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Department of Aeronautical Engineering

Event: Job opportunities in MRO engineering

Attendance list

Sr. No.	Name of student	Attendance
1.	Jeetisha Pravin Jadhav	Present
2.	Tanmay B. Gholap	Present
3.	OMKAR RAJMANE	Present
4.	Shweta melkunde	Present
5.	Omkar Bhagavan Patil	Present
6.	Vaishnavi Sambhaji Jadhav	Present
7.	Suraj Anil koulapure	Present
8.	VruShabh Patil	Present
9.	Suman Yadav	Present
10.	Mrunal Sambhajirao Bhosale	Present
11.	Shreya Yashwantrao Jadhav	Present
12.	Manthan patil	Present
13.	Tanmay Gholap	Present
14.	Ajinkya R Dhoble	Present
15.	Rushiraj Patil	Present
16.	Pooja Patil	Present
17.	Pramila bote	Present
18.	Pratik Mali	Present
19.	Sahilraj Dattatray Karaval	Present
20.	Rohasen misal	Present

Feedback on alumni Interaction : Job opportunities in MRO engineering with Mr. Vikas Patil

Your name	Class	Overall how do you rate this event?	What did you like about the event?	What did you disliked about the event?	Is there anything else you want to share about the event?
Jeetisha Pravin Jadhav	SY	4	Cooperative ness	Nothing	No
Tanmay B. Gholap	TY	5	Exposure to MRO engineering	-	good explanation about current trends
OMKAR RAJMANE	BTECH	5	WHOLE SESSION		
Shweta melkunde	TY btech	5	Whole session		
Omkar Bhagavan Patil	BTech	5	Doubt clearing session		
Vaishnavi Sambhaji Jadhav	TY	5	Clear all thing's job role of MRO		
Suraj Anil koulapure	SY	5	He cleared all doughts		
VruShabh Patil	B tech	5	Inspirational		
Suman Yadav	Final year Btech	4	Strategy		
Mrunal Sambhajirao Bhosale	Final year B.Tech Aeronautic al	5	Everything.Nice presentation and information was useful.		
Shreya Yashwantrao Jadhav	T. Y. Aeronautic al	4	The way he was explaining the preparation part and scope		
Manthan patil	Final Year	5	Excellent content		
Tanmay Gholap	TY	5	Information about MRO job role		
Ajinkya R Dhoble	B.tech	4	MRO job profile		
Rushiraj Patil	T.Y B. tech(aero)	4	Preparation for interview		
Pooja Patil	Ty	5	Clearly explained about MRO in india		
Pramila bote	TY aero	4	Half part		
Pratik Mali	SY	5	Everything	No	
Sahilraj Dattatray Karaval	T Y Aeronautic al	4	MRO Job role and its future		
Rohasen misal	Final year	4	Information about MRO		

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Department of Aeronautical Engineering

Analysis of Feedback

Sr. No.	Overall rating given by students (out of 5)	Number
1	Number of students given rating 5	12
2	Number of students given rating 4	8
3	Number of students given rating 3	0
4	Number of students given rating 2	0
5	Number of students given rating 1	0
6	Average of all ratings	4.6

Grade Institute Accredited by NAAC
BA Accredited courses
SO 9001:2008 Certified Institute

An Autonomous Institute

Estd. 1999

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Ref. ADLET/AERO/06/2021

Date: 06/04/2021

Letter of appreciation

Mr. Vikas Patil,

I would like to extend my sincerest gratitude towards you for your guidance session on Job opportunities in MRO engineering. Your knowledge and views have inspired students. It can be seen from the feedback, that students liked it a lot.

Please accept our appreciation for such a commendable job. You have covered all essential elements of MRO engineering job profile and your description of how to prepare for the same is remarkable.

I once again would like to thank you for such a wonderful interaction and hope to get a chance to hear such interactions from you in future also.

Sincerely,

Head,

Aeronautical Engineering Department

Annasaheb Dange college of engineering and Technology, Ashta.