



**SAVEETHA  
ENGINEERING COLLEGE**

**AUTONOMOUS**



Affiliated to Anna University | Approved by AICTE

## PALS – 2021-22

### PALS - Activities held in the month of January 2022

Below is the list of events that were conducted during the month of January 2022:

- STUDENT LEADER WORKSHOP II (REVIEW OF SL ACTIVITIES)
- MHI Internship for Engineering Students-Shared information by PALS
- VIRTUAL FDP(FACULTY DEVELOPMENT PROGRAMME )in ARTIFICIAL INTELLIGENCE(AI) & MACHINE LEARNING(ML)
- InnoWAH! :: PALS AWARE WEBINAR SESSION on **BASICS IN IPR**
- HTIC Medtech Incubator - “BIG Awareness Session”
- PALS VIRTUAL INDUSTRY VISIT ORGANISED BY SHANTHI GEARS
- InnoWAH! :: PALS AWARE WEBINAR FOR ENTREPRENEUR

## Activity – 1

### STUDENT LEADER WORKSHOP II (REVIEW OF SL ACTIVITIES) - 05.01.22 @2PM - 4PM

Following the kickoff of the Student Leader program in Sept 2021, there were a range of activities that student leaders had to complete by Dec 2021.

On 5<sup>th</sup> Jan the agenda would be as follows

1. All SLs to log in at **2 PM** sharp
2. First session between **2 PM to 230 PM** would be conducted by Mr Subramanian of PALS on essentials of **Group Discussion**.
3. Second session would be the Review of the SL activities till date.

The SLs would be split to three breakout rooms, each of which would have a panel of two PALs members for evaluation. SLs may log out on completion of their presentation, although we would suggest that they stay for the other presentations as well.

### **SL Review**

SLs have to make a short presentation on the actions taken by them following SL workshop I , any innovative initiatives they have implemented to improve participation in PALS activities, as well as a preview of their plans for the rest of the academic year. We would also like to hear from you on the feedback of your peers on the PALS events conducted thus far in 21-22.

This presentation should be around 5-7 slides, with bullet points which would be explained by the SLs. Time per team is 5-7 minutes.

Student leaders would be evaluated in this presentation for the quality of work done, activities completed, as well as the quality of the slides and presentation skills. These would form an important part of their performance for the award of the “**PALS Student Leader Internship certificate**” at the end of the academic year. The evaluation would be done by a panel of PALs members.

## **Group Discussion Basics ( GD)**

An integral part of functioning in any organisation (whether as an entrepreneur or as an employee!!) involves engaging with the teams in discussions.

You would recollect, in the Student Leader workshops conducted in Sept 2021, we did have one session where you had to participate in small groups in discussing and arriving at actions for implementation.

One of the observations of the PALS team of this group activity, was the need to provide Student Leaders inputs on the general construct of a Group Discussion, what is expected, some general rules and suggestions on participation.

### **Activity -2**

MHI Internship for Engineering Students-Shared information by PALS

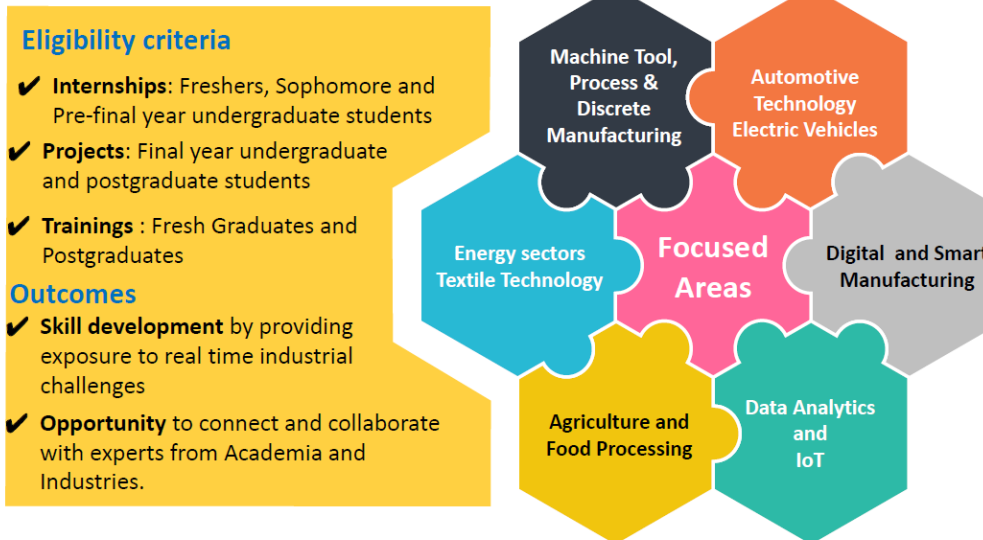
Advanced Manufacturing Technology Development Centre, Ground Floor, Block B, Phase II, IIT Madras Research Park, Kanagam Road, Taramani, Chennai – 113 . AMTDC - IIT Madras is calling applicants for internships and projects for the **kite** (Knowledge Integration and Technology Enrichment) platform for the period of **Three and Six Months**. These internships are to promote innovation in fields of Machine Tool, Process and Discrete Manufacturing, Digital and Smart Manufacturing, Data Analytics and IoT, Agriculture and Food Processing, Energy sector and Textile Technology. These internships are offered to undergraduate and postgraduate students, recent graduates and postgraduates. More applicants will be encouraged from your respected college/university.



# Internships / Projects for Engineering Students



To realize the grand vision of our Hon'ble Prime Minister for Atmanirbhar Bharat, the Ministry of Heavy Industries, Government of India is engaged in the development of Technology and Innovation Platforms to promote innovation in the product design and development in the Capital Goods Sector. The four platforms being developed by AMTDC- IIT Madras (*kite*), ARAI (*TechNovuus*), CMTI (*drishti*), and ICAT (*ASPIRE*) are jointly offering the sponsored internships and projects to undergraduate and postgraduate engineering students. These internships are expected to promote innovation and practical problem-solving abilities among the youth through hands-on working on real problems.



- 1** **Common registration for all platforms:**  
[Click here to register](#)  
Starting of registration: 23/12/2021  
Last date to apply: 10/01/2022
  - 2** **Shortlisting of interns by the respective platform:**  
ASPIRE: 15/01/2022  
drishti: 20/01/2022  
TechNovuus: 07/01/2022  
kite: 15/02/2022
  - 3** **Start of internship by the respective platforms**  
Start date: Will be intimated by the respective platforms
- Students from all branches of engineering are eligible for internships / projects.
  - Internships and projects are available in both virtual and physical mode.
  - Selection criteria will depend on the internship opportunities available at the respective technology innovation platforms.
  - Batches may vary platform to platform.



### Activity – 3

VIRTUAL FDP(FACULTY DEVELOPMENT PROGRAMME )in ARTIFICIAL INTELLIGENCE(AI) & MACHINE LEARNING(ML) ON JAN 24th &25th 2022

PALS conducted hands-on Faculty Development Programme on DS/AI Conducted by our PALS Champion Nanu Swamy online on **Jan 24<sup>th</sup> & 25<sup>th</sup>, 2022.** .

#### **Hands on Introduction to Artificial Intelligence and Machine Learning**

This action packed two days hands on workshop is designed to be an introductory session for faculty aspiring to learn/teach Artificial Intelligence and Machine Learning. We'll start by defining the difference between traditional programming and machine learning, look at the different types of machine learning systems, and navigate into neural networks and natural language processing using transformers such as BERT.

We will look at application of CNN's for text analysis, image classification and detection that can be used in different branches of engineering.

#### Agenda:

Date	Time	Session Description
24-01-2022	9:30AM - 10:00AM	Welcome, Introductions
	10:00AM - 11:30AM	Session 1 - Introduction to AI/ML concepts, Algorithms
	11:30AM - 11:45AM	Break

	11:45AM - 1:15PM	Session 2 - Hands On Exercises
	1:15 PM - 2:00 PM	Lunch
	2:00PM - 3:30PM	Session 3 - Neural Networks, CNNS/DNN's, Architectures
	3:30PM - 3:45PM	Break
	3:45 PM - 5:00 PM	Session 4 - Hands On Exercises/Slido Quiz of Day 1 Session
25-01-2022	10:00AM - 11:30AM	Session 5 - RNNs, LTSM's, Natural Language Processing
	11:30AM - 11:45AM	Break
	11:45AM - 1:15PM	Session 6 - Transformers, BERT, Multimodel Voice Systems
	1:15 PM - 2:00 PM	Lunch
	2:00PM - 3:30PM	Session 7 - Text Classification, Action Recognition Systems
	3:30PM - 3:45PM	Break
	3:45 PM - 5:00 PM	Session 8 - Document Summarization, Question Answering Systems/Slido Quiz of Day 2 Session

## **Activity - 4**

InnoWAH! :: PALS AWARE WEBINAR SESSION on **BASICS IN IPR.**

PALS conducted an AWARE Webinar on **11<sup>th</sup> January 2022 between 02.00PM – 03.15 PM.**  
This AWARE Webinar is for Entrepreneurs will cover **BASICS IN IPR.**

**Ms. Swapna Sundar, IPR Lawyer & Strategist** has agreed to conduct this session. Requesting all the members to participate in the event and ask all the questions that you may have.

### **Brief Profile on the Speaker**

Ms. Swapna Sundar's current interest is innovation and technology law. More information about her work and approach are available on her personal website [www.swapnasundar.com](http://www.swapnasundar.com). Ms. Swapna Sundar works on ethics in a number of areas including clinical trials, governance, professional ethics and constitutional ethics.

Ms. Swapna Sundar teaches Law and Technology in a number of institutions and is also member of several institutional ethics committees. Specialties: Intellectual Property consultation, services and strategy Patent drafting, filing, prosecution and litigation Innovation planning and research design Training in IP creation, protection, management and monitoring IP landscaping, audit, valuation and mapping .



**PALS 2021 – 22**

**innowAH!**  
Innovation Competition

# **AWARE WEBINAR SESSION**

## **KNOW YOUR BASICS IN IPR**

BY

**Ms. SWAPNA SUNDAR**

**Date : 11<sup>th</sup> January 2022 | Timing: 02.00pm – 03.15pm**

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**EMAIL** [palspgm@palspgm.com](mailto:palspgm@palspgm.com)  
**WEB SITE** [www.palspgm.com](http://www.palspgm.com)

**AUGMENTING ENGINEERING  
EXCELLENCE**

IIT Madras Alumni Association Office,  
CCW building,  
IIT M Campus,  
Chennai – 600 036



## **Activity – 5**

HTIC Medtech Incubator - “BIG Awareness Session” - 25.01.22 @ 2pm - 3pm

### **Agenda:**

- Big Scheme Overview and Process Flow.
- Insights into Big Requirements and Application Submission.
- Q&A Session

*HTIC MedTech Incubator as an Associate BIG Partner is also inviting applications for the 20<sup>th</sup> Call of the BIG Grant. Please find the details of BIG Grant below.*

### **BIG GRANT**

BIG (Biotechnology Ignition Grant) is a flagship scheme of BIRAC which recognizes and invests in innovative ideas in the biotech sector. The ideas should have clear potential to translate into commercial products/technologies. BIG supports individual entrepreneurs/ start-ups from ideation to Proof of Concept (PoC). Under the BIG scheme, BIRAC provides grant-in-aid of upto INR 50 lakhs (approx USD 75,000) for a period of 18 months.

### **Areas supported under BIG:**

BIG scheme supports innovation under Healthcare, Lifesciences, Diagnostics, Medical Devices, Drugs, Vaccines, Drug Formulations and delivery systems, Industrial Biotechnology, Agriculture, Secondary agriculture, Waste Management, Sanitation, Clean Energy and related areas.

## **Who Can Apply**

BIRAC invites proposals from Biotech Start-ups and Individual Entrepreneurs with innovative idea having potential for commercialization. Eligible entities include:

- Start-up age allowed for a registered company/ LLP incorporated under BIG w.e.f 1st Aug 2021: 5 years.
- Scientists, Faculty, Research Scholars, and Graduates in any discipline incubating/ intend to incubate at a BioIncubator.
- Eligibility criteria for start-ups under BIG has been revised.

## **Support Provided by IITM HTIC MedTech Incubator as a BIG Associate Partner**

- Orientation from Innovators & Entrepreneurs on the eligibility and aim of BIG schemes.
- Mentor and handhold prospective BIG applicants and assist them for application.
- Mentoring provided for areas including but not limited to technical, business, IP, legal, regulatory etc.
- Facilitate connections and networking for BIG applicants.



## BIOTECHNOLOGY IGNITION GRANT Awareness Session

Jointly organized by

**HTIC MedTech Incubator**

as a

**BIRAC's Associate BIG Partner & PALS**

Inviting applications for

**BIG 20<sup>th</sup> Call**

### Areas Supported Under BIG



Medical devices  
& diagnostics



Environmental  
Science



Waste  
Management



Industrial  
biotechnology



Biopharma -  
Drugs vaccines &  
delivery systems



Clean Energy



Veterinary  
Science



Agriculture

### HTIC MedTech Incubator as a BIG Associate Partner Offers

Access to technical & business mentors

Access to investors & business network

Access to personalized hand holding on grant writing

Grant-in-Aid upto  
**₹ 50 lakhs**

For 18 months

### Who can Apply

- Students
- Researchers
- Entrepreneurs

Apply Before  
15<sup>th</sup> February, 2022 (5.30pm)

Date: Jan 25<sup>th</sup>, 2022  
Time: 2.00pm -3.00pm

Link to join the session  
[meet.google.com/yuc-ieex-uvv](https://meet.google.com/yuc-ieex-uvv)

Registration Link: <https://tinyurl.com/5n6tamb3>

## **Activity - 6**

PALS VIRTUAL INDUSTRY VISIT ORGANISED BY SHANTHI GEARS ON 31st January 2022

### **About the Company:**

Shanthi Gears—a subsidiary of Tube Investments of India & a Murugappa group company—is a pioneer in gear manufacturing and ranks amongst India's top gear manufacturers today. For over four decades now, Shanthi Gears has been the preferred name for gear and gear box solutions, for some of the biggest names in the industry. We are committed to offering precision engineering, reliable quality and complete solutions. For more information, you may also refer our website ([www.Shanthigears.com](http://www.Shanthigears.com))

### **Program Coverage**


Aspiring Engineering Students (3<sup>rd</sup> Year/Final Year) currently pursuing (Bachelor of Engineering in Mechanical, Mechatronics, Metallurgy and Automobile) disciplines are only to attend this virtual industrial visit as per the instructions given by the industry.

## Activity - 7

PALS AWARE WEBINAR FOR ENTREPRENEUR - 27.01.22 - 2.30 PM to 04.00 PM

PALS Conducted - Aware webinar for Entrepreneurs especially for the Innowah Finalist and the other students also attended the webinar.

Session topic is "How to Self-Evaluate your Project" by Mr. Balaji Venkatraman (a hands on approach)

	<b>PALS 2021 – 22</b>	
<b>AWARE WEBINAR SESSION</b> <b>How to Self Evaluate your Project</b>		
BY <b>Mr. Balaji Venkatraman</b>		
<b>Date : 27<sup>th</sup> January 2022   Timing: 05.30pm – 07.00pm</b>		
<b>PHONE</b> +91 98416 39338 <b>EMAIL</b> palspgm@palspgm.com <b>WEB SITE</b> www.palspgm.com	<b>AUGMENTING ENGINEERING EXCELLENCE</b>	IIT Madras Alumni Association Office, CCW building, IIT M Campus, Chennai – 600 036