

MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

**Vel Tech Rangarajan Dr. Sagunthala R&D Institute of
Science and Technology
Deemed University u/s 3 of UGC Act, 1956**



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

&

Vaayusastra Aerospace Private Limited



VAAYUSASTRA
AEROSPACE PVT. LTD.

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MoU') is entered into on this the 09th of July 2021 (Friday)

BETWEEN

VEL TECH Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, #42 & 60, Avadi-Veltech Road, Chennai - 600062, TamilNadu, India, the **First Party** represented herein by its **Dean Industry Relations, Vel Tech** (hereinafter referred as '**First Party**', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

AND

VAAYUSASTRA AEROSPACE PVT LTD, E BLOCK 3RD FLOOR, IIT MADRAS RESEARCH PARK, THARAMANI, CHENNAI -600113, Tami Nadu India, the **Second Party**, and represented herein by its **Founder and CEO - Mr. Jagadeesh Kanna G**, (hereinafter referred to as "**Second Party**", company which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party is a Higher Educational Institution named:
- (i) **Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology**
- B) Second Party is an Aviation company
- (ii) **Vaayusastra Aerospace Pvt Ltd**
- C) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their



resources, and provide each of them with enhanced opportunities.

- D) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- E) Both Parties, being legal entities in themselves desire to sign this MoU for advancing their mutual interest.
- F) **VAAYUSASTRA AEROSPACE PVT LTD**, the Second Party is engaged in Educational Research and technology development. Vaayusastra do workshops for children using Theatre as an educational tool in the field of Aerospace & Aeronautics and also addressing knowledge transfer problem in Aerospace, Rocketry, and Aeronautical sector for School children and College students.
- G) **VAAYUSASTRA AEROSPACE PVT LTD**-an IIT Madras and IITM RTBI incubated & Funded EdTech company and Recognized by Start-up India. Vaayusastra do workshops for children using Theatre as an educational tool in the field of Aerospace & Aeronautics and also addressing knowledge transfer problem in Aerospace, Rocketry, Aeronautical sector for school children and College students

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MoU, THE PARTIES HERE TO AGREE AS FOLLOWS:

CLAUSE 1 CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within **Vel Tech** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching/ training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MoU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MoU. The term of Definitive



Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MoU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2 SCOPE OF THE MoU

- 2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- 2.2 **Curriculum Design:** Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- 2.3 **Industrial Training & Visits:** Industry and Institution interaction will give an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- 2.4 **Internships and Placement of Students:** Second Party will actively engage to help the delivery of the Internship and placement of students of the First Party into internships/jobs, as per AICTE internship Policy. The Second Party will also register itself on AICTE Internship Policy Portal for disseminating the Internship opportunities available with them.
Through Internship - the students, the faculty involved can publish their contribution work along with Industry mentor.
- 2.5 First Party will forward students of the qualified personnel for whom they propose/sponsor to be trained and placed through various services that second party offers, well in advance which will be scrutinized for suitability, and a list of such eligible candidates shall be intimated to First party. Thereafter, the candidates will have to undergo necessary process at Chennai on an appointed date, against appropriate program or position for selection and further processing.



- 2.6 That, mere attending the interview shall not constitute any right on the candidates for placement. Neither any liability lies on second party in this regard or to First Party. Placement shall be subject to client requirements. However, second party shall facilitate and pursue the objective(s) under this MoU.
- 2.7 **Research and Development:** Both Parties have agreed to carry out the joint research activities in the fields of Educational Research and technology development in the field of aeronautics aerospace engineering, on field hands on technology projects, career guidance / Master classes from industrial experts, internships, training facilities for college students.
- 2.8 **Skill Development Programs:** Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.
- 2.9 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lectures to the students of the First Party on the technology trends and in house requirements.
- 2.10 **Faculty Development Programs:** Second Party to train the Faculties of First Party for imparting industrial exposure/ training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- 2.11 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.12 If there is any financial consideration for any of the programs offered by Vaayusastra Aerospace Pvt. Ltd., it will be dealt separately.

CLAUSE 3 INTELLECTUAL PROPERTY

- 3.1 Nothing contained in this MoU shall, by express grant, implication, estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.



CLAUSE 4 VALIDITY

- 4.1 This Agreement will be valid for 3 years from the date of signing, until it is expressly terminated by either Party on mutually agreed terms, during which period **VAAYUSASTRA AEROSPACE PVT LTD**, the Second Party, as the case may be, will take effective steps for implementation of this MoU. Any act on the part of **VAAYUSASTRA AEROSPACE PVT LTD**, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MoU.
- 4.2 Both Parties may terminate this MoU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that **Vel Tech** and **Vaayusastra Aerospace Pvt Ltd** are acting under this MoU as independent contractors, and the relationship established under this MoU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MoU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

Vel Tech - Vaayusastra Aerospace Pvt Ltd

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Chennai**.



AGREED:

For Vel Tech

*S. Saliva*Authorized Signatory
Prof. S. Salivahanan
Vice Chancellor

For Vaayusastra Aerospace Pvt Ltd

Jagadeesh Kanna G

Authorized Signatory

JAGADEESH KANNA G
FOUNDER & DIRECTOR
VAAYUSASTRA AEROSPACE PVT. L

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Vaayusastra Aerospace Pvt Ltd
#42&60, Avadi-Veltech Road, Chennai - 600062 TamilNadu	E Block 3rd Floor, IIT Madras Research Park, Tharamani, Chennai -600113,
Prof.S.Salivahanan Vice Chancellor	Mr.JAGADEESH KANNA M.E., FOUNDER/CEO
dindoffice@veltech.edu.in	jagadeesh.vaayusastra@gmail.com
www.veltech.edu.in	Web: https://vaayusastra.com/

Witness1:

Dr.P. Chandrakumar

Dr. P. Chandrakumar
Dean
Industry Relations & TBI
Dean Industry Relations
Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Oswest to be University Est. in 8 of UGC Act, 1956

Witness2:

(M. ASWANI)
CTO
VAAYUSASTRA AEROSPACE PVT. LTD.
RTBI # 01, FA, First Floor,
IIT Madras Research Park,
Kanagam Road, Taramani,
Chennai - 600 113.



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Date: 10th Feb 2022

MOU signed with VAAYUSASTRA AEROSPACE PVT LTD. Chennai

MOU Number	MOU -319
Name of the Organization	M/s. VAAYUSASTRA AEROSPACE PVT LTD. Chennai
Date of signing of MoU	09.07.2021
Date of MoU Renewal (If any)	NIL
Next renewal due on	08.07.2024
Objectives of MoU	To offer project, To jointly carry out Research & Development projects

Academic Year	No. of Students	Course	Location of the internship	Duration	Project/IPT
2020 -21	14	AERO	VAAYUSASTRA Aerospace Pvt Ltd, IIT Chennai	20.12.2021- In Progress	Project


Dean Industry Relations & TBI

Dr. P. Chandrakumar
Dean
Industry Relations & TBI

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)


MoU Coordinator

No.42, Avadi-Vel Tech Road, Vel Nagar,
Avadi, Chennai - 600 062, Tamil Nadu, India.
Landline : +91 44 2684 0262 / 2684 0605
Toll Free : 1800 212 7669
Email : registrar@veltech.edu.in
Website : www.veltech.edu.in



VAAYUSASTRA
AEROSPACE PVT. LTD.

Reg. No: U74999TN2018PTC121997
E Block ,3rd Floor IIT Research Park, Chennai-600113

INTERNSHIP OFFER LETTER

Date: 15/10/2021

Candidate Name : Pujitha Modugumudi
Department & Institute : Vel Tech Rangarajan DR. Sagunthala R&D
Institute of Science and Technology
Reg No : VTU14701

This is to notify **Ms. Pujitha Modugumudi** have been selected for the position of Internship Trainee under the area

1. SHAPE MEMORY ALLOY

at Vaayusastra Aerospace Private Limited (an IITM Incubated Company)

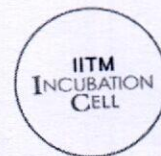
The candidate is required to undergo internship for one months (Later can be Extended up to six months) from 15th October to 15th November 2021 at Vaayusastra Aerospace Private Limited, RTBI, IIT Madras Research Park, Kanagam, Taramani, Chennai.

Regards,

Divya Rajendran
Head of Administration
Vaayusastra Aerospace Pvt Ltd



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Mail-check-in@vaayusastra.com
www.vaayusastra.com Contact-9360545176





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Reg. No: U74999TN2018PTC121997
E Block ,3rd Floor IIT Research Park, Chennai-600113

VAAYUSASTRA AEROSPACE PVT LTD
(An IITM Incubated Company)

PROJECT TRAINING AND INTERNSHIP DETAILS

Available Training Internship: (12 sessions program)

- Vimaan
(< 12km range - UAV, Drone etc.,)
- Agni
(12km>160km - Rockets etc.,)
- Akash
(160km> - Satellites etc.,)
- Adhisaya Parimana
(3D Printing Technology)
- Vaayu
(Everything about Aerodynamics)

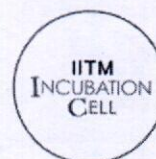
✓ Research and Devolvement Internship

Note:

1. Internship Period- 5 weeks (30 days),
2. Weekly Report & Presentation Mandatory.
3. Final Report must be submitting by the end of Internship.



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INTERNSHIP OFFER LETTER

Date: 15/10/2021

Candidate Name : Peddi Gowtham Kumar
Department & Institute : Vel Tech Rangarajan DR. Sagunthala R&D
Institute of Science and Technology.
Reg No : VTU12147

This is to notify **Mr. Peddi Gowtham Kumar** have been selected for the position of Internship Trainee under the area

1. SHAPE MEMORY ALLOY

at Vaayusastra Aerospace Private Limited (an IITM Incubated Company)

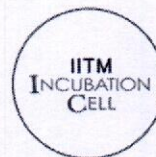
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Best Regards,

Divya Rajendran
Head of Administration
Vaayusastra Aerospace Pvt Ltd



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PROJECT TRAINING AND INTERNSHIP DETAILS

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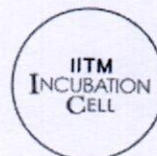
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E Block ,3rd Floor IIT Research Park, Chennai-600113

INTERNSHIP OFFER LETTER

Date: 15/10/2021

Candidate Name : Cherukuri Mahesh Babu
Department & Institute : Vel Tech Rangarajan DR. Sagunthala R&D
Institute of Science and Technology
Reg No : VTU12102

This is to notify **Mr. Cherukuri Mahesh Babu** have been selected for the position of Internship Trainee under the area

1. SHAPE MEMORY ALLOY

at Vaayusastra Aerospace Private Limited (an IITM Incubated Company)

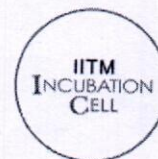
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Regards,

Divya Rajendran
Head of Administration
Vaayusastra Aerospace Pvt Ltd



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(An IITM Incubated Company)

PROJECT TRAINING AND INTERNSHIP DETAILS

Available Training Internship: (12 sessions program)

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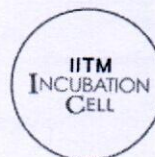
✓ Research and Devolvement Internship

Note:

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RTBii
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and Business Incubator

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Reg. No: U74999TN2018PTC121997
E Block ,3rd Floor IIT Research Park, Chennai-600113

INTERNSHIP OFFER LETTER

Date: 15/10/2021

Candidate Name : Gopinath K
Department & Institute : Vel Tech Rangarajan DR. Sagunthala R&D
Institute of Science and Technology
Reg No : VTU11367

This is to notify **Mr. Gopinath K** have been selected for the position of Internship Trainee under the area

1. THERMAL PROTECTION SYSTEM.

at Vaayusastra Aerospace Private Limited (an IITM Incubated Company)

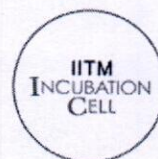
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Regards,

Divya Rajendran
Head of Administration
Vaayusastra Aerospace Pvt Ltd



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E Block ,3rd Floor IIT Research Park, Chennai-600113

VAAYUSASTRA AEROSPACE PVT LTD
(An IITM Incubated Company)

PROJECT TRAINING AND INTERNSHIP DETAILS

Available Training Internship: (12 sessions program)

- Vimaan
(< 12km range - UAV, Drone etc.,)
- Agni
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(Everything about Aerodynamics)

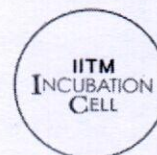
✓ Research and Devolvement Internship

Note:

1. Internship Period- 5 weeks (30 days),
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INTERNSHIP OFFER LETTER

Date: 15/10/2021

Candidate Name : Monish Kumar R
Department & Institute : Vel Tech Rangarajan DR. Sagunthala R&D
Institute of Science and Technology
Reg No : VTU11307

This is to notify **Mr. Monish Kumar R** have been selected for the position of Internship Trainee under the area

1. THERMAL PROTECTION SYSTEM.

at Vaayusastra Aerospace Private Limited (an IITM Incubated Company)

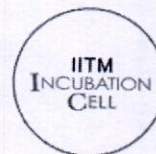
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Regards,

Divya Rajendran
Head of Administration
Vaayusastra Aerospace Pvt Ltd



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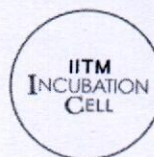
✓ Research and Devolvement Internship

Note:

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E Block ,3rd Floor IIT Research Park, Chennai-600113

INTERNSHIP OFFER LETTER

Date: 15/10/2021

Candidate Name : Hemanth Reddy P
Department & Institute : Vel Tech Rangarajan DR. Sagunthala R&D
Institute of Science and Technology
Reg No : VTU14932

This is to notify **Mr. Hemanth Reddy P** have been selected for the position of Internship Trainee under the area

1. SHAPE MEMORY ALLOY

at Vaayusastra Aerospace Private Limited (an IITM Incubated Company)

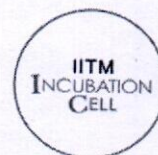
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Regards,

Divya Rajendran
Head of Administration
Vaayusastra Aerospace Pvt Ltd



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- Adhisaya Parimana
(3D Printing Technology)
- Vaayu
(Everything about Aerodynamics)

✓ Research and Devolvment Internship

Note:

1. Internship Period- 5 weeks (30 days),
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3. Final Report must be submitting by the end of Internship.



INTERN & TRAINEE SELECTION PROCEDURE & RULES

ELIGIBILITY CRITERIA:

1. Must be a engineering degree student preferable aerospace/aeronautics from a recognized university or college (Final semester students can apply)
2. No pending arrears/backlogs
3. Student pursuing degree or completed both eligible
4. Student pursuing degree can do internship for 4-6 weeks
5. Student completed degree can work as trainee or intern for 3 months max

SELECTION PROCEDURE :

1. Technical interview (not mandatory if the student has very good academic records)
2. Hr interview (mandatory)

INTERVIEW PROCESS :

1. Technical – face to face / video conferencing
2. HR – face to face / video conferencing

(Ask vision & mission of student - Student must have positive thought process about learning, career and some social impact vision using technology , importantly not a money minded person)

SELECTED CANDIDATE WORK FLOW :

Once the candidate is through

He must be given options to choose the Area of interest

S.No	Area of Interest option	Based on altitude	Research topics (3D design/print, Analysis, software design common for all areas)
1	Vimaan	0-12 km	UAV/Drone/Airplanes/Engines/Aerostat vehicles/Aerodyne vehicles
2	Agni	12-160 km	Rockets/Rocket Engines/Re entry vehicles/Re-entry materials
3	Akaash	160 & above	Satellites, Cube satellites, Telemetry, space propulsion, Astronaut suits, Materials, Structure, Rovers etc.,)
4	3D Printing Technology	For all above 3 categories	For all above three categories



INTERN & TRAINEE SELECTION PROCEDURE & RULES

AFTER CANDIDATE SELECTS THE TOPIC :
WORK FLOW PROCESS:

STEPS :

1. Once the student is selected, He must be assigned a research topic (Vimaan/agni/Akaash)
2. He must be assigned with a senior staff as Guide and PHD/ME/equally well experienced person as Guide & mentor respectively

FOR STUDENTS PURSUING COLLEGE:

This comes Under Training / Project training / Conceptual learning category

ELIGIBILITY CRITERIA:

1. Student of Any year can apply
2. No pending arrears/backlogs
3. Training & Internship will be for 12 Days & 18 Hours & if they perform well they will be promoted as research interns
4. Project training will be provided, either the student can come up with their own idea or if they want us to provide some research topics, Vaayusastra research team will provide topics

PROCEDURES

1. This training period the students have to pay Rs.5500/- (GST extra)
2. During training period student will be provided with hands on materials to practice and students to get to have some take away designs as well.
3. In this training process the students also get to be assessed in teamwork and creative skill sets.

TRAINING AREAS

1. Rocket design & Fabrication (3 Levels)
2. Cube satellite design & Fabrication (3 Levels)
3. Drone Design & Fabrication (3 Levels)
4. 3D printing technology (3 Levels)
5. Propellant making and testing procedures
6. Rocket nozzle design and Load cell test
7. CEA / Rock-sim / Java foil / Foil sim / Design software's / Analysis software's with industrial use
8. Aerodynamics
9. Telemetry



INTERN & TRAINEE SELECTION PROCEDURE & RULES

10. Circuit design basics related to Aero domain
11. Build your own transmitter and receiver (3 Levels)
12. Motor Speed and Direction control for reaction wheel
13. Build your own circuit design & Simulate it using softwares
14. ECE / EEE / CSE / Mech / Automobile / Textile / Aeronautics / Aerospace Engineering
Related project design and Guidance
15. Startup enablement & Funding guidance for college students with good projects
16. Pitch tech preparation Guidance

Regards,
M. Aswini
CTO – Thermal Textiles and Astronaut Suits
Vaayusastra Aerospace Pvt. Ltd.
IIT Madras Research park.



VAAYUSASTRA
AEROSPACE PVT. LTD.

Reg. No: U74999TN2018PTC121997
E Block ,3rd Floor IIT Research Park, Chennai-600113

INTERNSHIP OFFER LETTER

Date: 15/10/2021

Candidate Name : Kandivalasa Sai Lokesh
Department & Institute : Vel Tech Rangarajan DR. Sagunthala R&D
Institute of Science and Technology
Reg No : VTU14215

This is to notify **Mr. Kandivalasa Sai Lokesh** have been selected for the position of Internship Trainee under the area

1. SHAPE MEMORY ALLOY

at Vaayusastra Aerospace Private Limited (an IITM Incubated Company)

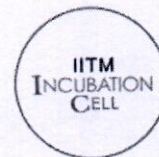
The candidate is required to undergo internship for one months (Later can be Extended up to six months) from 15th October to 15th November 2021 at Vaayusastra Aerospace Private Limited, RTBI, IIT Madras Research Park, Kanagam, Taramani, Chennai.

Regards,

Divya Rajendran
Head of Administration
Vaayusastra Aerospace Pvt Ltd



LET'S REACH THE SKY AND BEYOND
Mail-check-in@vaayusastra.com
www.vaayusastra.com Contact-9360545176





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E Block ,3rd Floor IIT Research Park, Chennai-600113

VAAYUSASTRA AEROSPACE PVT LTD
(An IITM Incubated Company)

PROJECT TRAINING AND INTERNSHIP DETAILS

Available Training Internship: (12 sessions program)

- Vimaan
(< 12km range - UAV, Drone etc.,)
- Agni
(12km>160km - Rockets etc.,)
- Akash
(160km> - Satellites etc.,)
- Adhisaya Parimana
(3D Printing Technology)
- Vaayu
(Everything about Aerodynamics)

✓ Research and Devolvement Internship

Note:

1. Internship Period- 5 weeks (30 days),
2. Weekly Report & Presentation Mandatory.
3. Final Report must be submitting by the end of Internship.

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and Business Incubator

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