



## B.S.Satyanarayana R V College of Engineering. Bangalore

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**RVCE - Marching Ahead** 

16 Nov 2013



# Outline

**RVCE Vision** 

What do we mean by Career Opportunities in Sustainable Habitats

What are we doing to Prepare our students Conclusion



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#### **VISION**



LEADERSHIP IN QUALITY TECHNICAL EDUCATION, RESEARCH & INNOVATION THROUGH TEAMWORK, WITH A FOCUS SUSTAINABLE AND INCLUSIVE TECHNOLOGY

#### Part of our **Mission**

(Initiative in this Golden Jubilee year 2013-14 to be completed in a Max 3 years )



- (i) Zero Water (Discharge and Intake self sustained)
- (ii) Zero Waste
- (iii) Zero Energy Campus by 2016

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## What do we mean by Career Opportunities in Sustainable Habitats?



# **Career Options**

- Construction (Energy Efficiency Green Building)
- · Corporate Social Responsibility Professional Ecologist
- Economists (Environmental & sustainable Issues)
- · Educators (Ecological and all aspects of Sustainability)
- Energy Manager (Renewable)
- Engineers (Environmental / Pollution Control, Sustainable Energy) Entrepreneur (Green)

**Environmental Health and Safety (EHS) Technicians** · Financial analyst/adviser specializing in socially

responsible investing Food Scientist, Organic Food and Farming **Production Specialists** Forester

Furniture Builder (Eco-friendly)

• Industrial Designer (Sustainable) Interface & Interior Designer (Green) IT Specialists (Green Software and Hardware Developers) Lawyer (Environmental)

**Advocacy Agencies** Sustainability Specialists

 Waste Management **Construction Professionals** 

•Design and Construction ·Consultants, Policy makers, Advocacy and

Change leaders,

Camp Counselor

Agricultural Inspector

•Career Consultants (Green) •Clean energy (solar, wind, biomass, biofuels,

•Building Operations Management

geothermal, waste to energy, hybrid systems, energy harvesting and scavenging) •Scientists working on Chemical, structural. Biologist(Conservation), Material, sensors, Environmental, Hydrologist, Climatologist, Environmental Meteorologist, Toxicologist •Energy Efficient systems (integrated infrastructure and health monitoring, electrical,

Architect (Environmental /Sustainable Design)

light wind and air harvesting) •Climate Risk Analyst, Emissions Manager, **Emissions Trader** 

Community Affairs Manager

Complementary Health and Medical Care

• Heating, air conditioning and refrigeration engineers, mechanic to technicians/installer

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# The 12 Principles Sustainable Technolog (especially for materials)

- Pollution Prevention
- Atom Economy or saving on materials
- Less Hazardous Synthesis
- Design Safer Chemicals
- Safer Solvents & Auxiliaries
- Energy Efficiency
- Renewable Feed stocks
- Reduce Derivatives
- Catalysis
- Design for Degradation
- Real-Time Analysis
- · Accident Prevention

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## Interdisciplinary Research Groups



- Materials & Manufacturing Engineering with additional capability for Design of Structures, Zigs & Fixtures, Process Equipments, Process Monitoring tools, Design for Optimization of Manufacturing processes, Casting & forging, Rapid Prototyping, Production & Supply Chain Mgmt, Testing for biofuels & blends.
- The broad areas of Materials include polymers, composites, wide range of nano materials (metals, ceramics and semiconductors) and amorphous materials for applications in transport(aviation, automobile to agriculture), construction, health, communication, clean energy and electronics.
- Sensors, Networks and Communication(upto THz)
- Nano Science, Surface Engineering & MEMS
- Data Mining/Data warehousing or Business Intelligence, Cloud Computing,
- Environment Friendly And Sustainable Technologies with Enable Intelligent Infrastructure Management buildings (Health Monitoring), Smart Cities including and Intelligent Transport Systems.
- Clean & Renewable Energy, Energy Efficiency & Management
- Large Area and Plastic / Printable (Flexible) Microelectronics
- Advanced Instrumentation including Medical Instrumentation
- · Highways and Transport technology
- Clean Water and Waste Management

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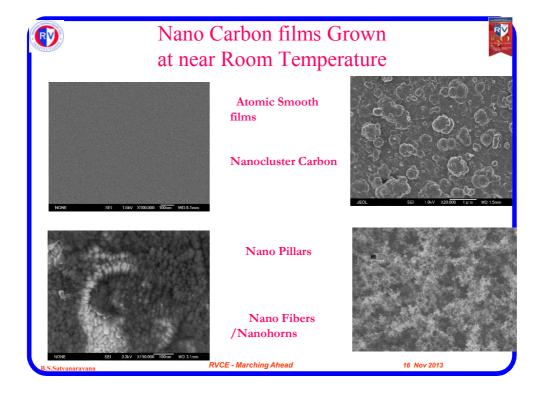


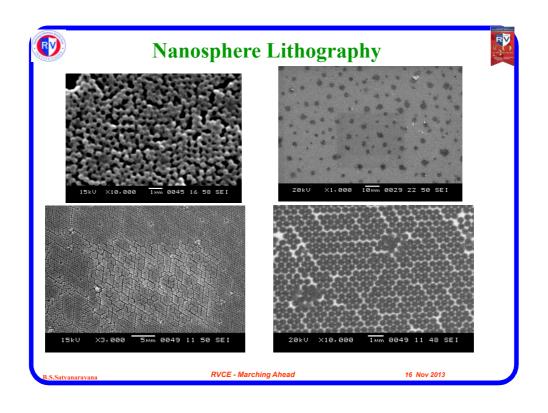




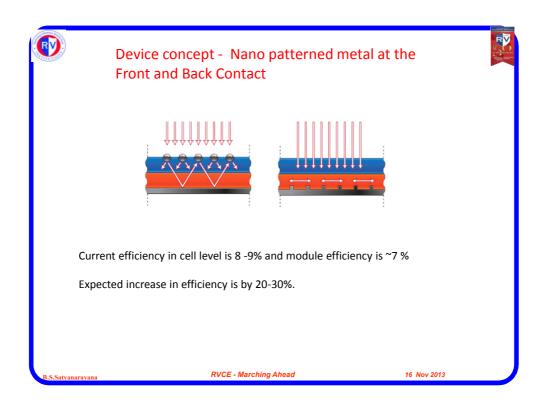


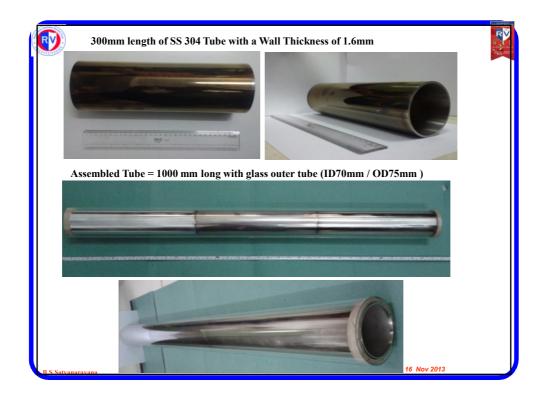




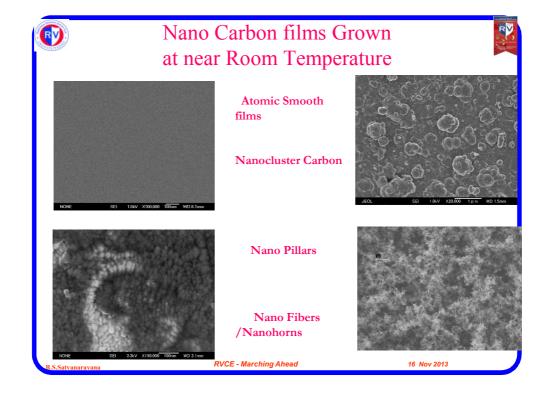




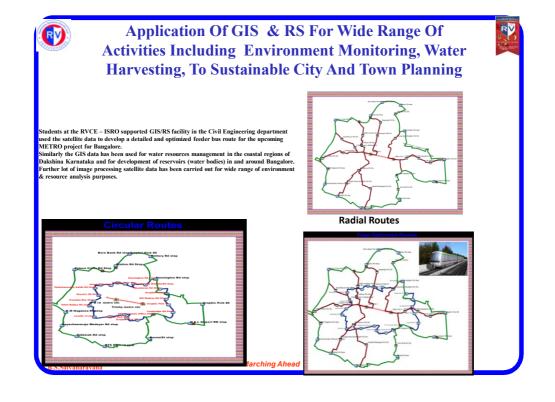


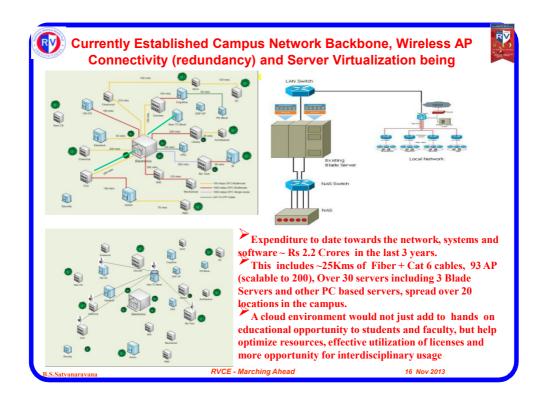
















## Conclusion

Presented Is A Brief Overview Of Career Opportunities And How Even One Initiative With Sustainability And Inclusiveness Can Go A Long Way

Only Thing That Can Limit Us Is Our Imagination Other Wise It Is Opportunities Unlimited

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