

APPLICATION

Due: Friday, March 6th, 2015

AMERICAN CONCRETE INSTITUTE – MISSOURI CHAPTER GRADUATE SCHOLARSHIP AWARD

PERSONAL INFORMATION

NAME:	PHANINDRA KUMAR KOSARAJU		
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HIGHER EDUCATION

INSTITUTION	DATES AT-TENDED	CREDIT HOURS	DEGREES AWARDED AND DATE
BAPATLA ENGINEERING COLLEGE	JUNE 2010 TO APRIL 2014	217	CIVIL ENGINEERING

GRADUATE STUDY

Institution: UNIVERSITY OF MISSOURI KANSAS CITY		Location: Kansas city	
Date of Admission:	01/12/2015	Period of Study:	Two years
Degree Expected:	Masters in civil engineering	Major:	Structural Minor
Previous MO-ACI graduate scholarship? Yes ☐ , No ☒ If yes, when?:			

- 1. What reasons do you believe support your application for this award? (Financial need is not an important criterion.)**

I am an innovative and resourceful student having a Bachelor of Engineering degree in Civil engineering stream. I believe that my academic background in the concrete is one of the major supporting element for my application.

Another supporting element is, my interest in the area of concrete. My interest inspired me to study subjects like prestressed concrete and gain knowledge about post tensioning and pile foundation construction by visiting on-site projects. At present I am going to involve with "Big beam" team at our University and I plan to do Blast research on Reinforced concrete bridges. In the future I want to continue my study and research within the concrete subjects and material properties of concrete, in order to provide safe structures and make the best use waste materials and reduce pollution.

2. What is your background in the field of concrete? Of particular interest is your experience in design, materials, construction, and/or research. Include a summary of your work experience and accomplishments.

During my undergraduate studies, I have gained extensive knowledge in the concrete field, by studying subjects like Design of Concrete Structures -1 & 2, Prestressed concrete, Concrete technology and Building materials planning and construction. I had done one project related to concrete i.e. High performance concrete with Ground granulated blast furnace slag (GGBS) and Sugarcane Bagasse ash. In that project we had prepared concrete by replacing cement with GGBS and sand with Sugarcane Bagasse ash and tested it for compressive strength, and split tensile strength. The obtained values are compared with normal concrete. In this project I had come to know the material properties of cement and sand in detail.

I had visited some onsite projects to gain knowledge regarding post tensioning. There I had come across various designs which represent different structural parts of a building like slab, beam, column, etc.

3. What is your plan for continuing your education? What goals have you established for your education?

I am continuing my education to fulfill my thirst for learning. Due to gradually increasing urbanization, the density of the population has increased a lot. So very precise structures are required to avoid huge losses. For this a thorough knowledge is required. And also I want to be a part of the developing construction world. This can be done by knowing software developments within this field, such as RISA, SAP, AutoCAD, etc.

My major goal is to study for safe design of structures by using newly available software tools and also to gain knowledge regarding the reuse of concrete and using waste materials like sugarcane Bagasse, Rice husk ash, etc. using such materials will reduce the pollution due to processing of cement and will reduce the difficulties with the disposal of concrete and other waste materials.

4. What specific work relating to concrete, such as design, materials, construction, or research, will you pursue during your graduate work?

During my graduate education I will study subjects like
Advanced reinforced concrete design
Design of structures for blast and fire
Prestressed Concrete

I am going to involve with "Big Beam" team at our university. In that team we are going to design a concrete beam. We are going to compete with the real world with respect to our design, and cost effectiveness. During my graduate education I am going to involve in the Blast research on reinforced concrete bridges. In that we are going to study the behavior of reinforced concrete bridges when subjected to blast loading.

5. What will your program of study be during the year of this award? (List coursework and research)

My course work during this year are:
1. Seismic design of structures 2. Structural steel design 3. Matrix methods in civil engineering 4. Advanced reinforced concrete design 5. Design of structures for blast and fire 6. Prestressed Concrete
And a Research on reinforced concrete bridges.

REFERENCES

List the names of two people from whom you have requested recommendations be emailed or mailed to the ACI-MO Chapter at the address below.

NAME	TITLE	EMPLOYER	ADDRESS
Ganesh Thiagarajan	Professor	UMKC	350J Robert H.Flarsheim Hall 5100 Rockhill Road Kansas city, 64110
ZhiQiang Chen	Assistant Professor	UMKC	350F Robert H.Flarsheim Hall 5100 Rockhill Road Kansas city, 64110

I certify that the information contained in this application is true and that I have answered all of the questions to the best of my ability. I agree that I will notify the ACI Missouri Chapter immediately when my educational program is interrupted or changed in any manner that may jeopardize the intent of the award. I further agree that I will accept the award only as long as I successfully pursue the graduate study program I have described above and for which the reward was made.

Signature: K. P. Hanindra Date: 03/06/2015

RETURN COMPLETED APPLICATION PACKAGE BY FRIDAY, MARCH 6TH, 2015 TO dane.shaw@jacobs.com (PREFERED SUBMISSION METHOD)

or

**Dane M. Shaw
Jacobs Engineering**