13 INSTITUTES

- Animal Research Institute
- **Building and Road Research Institute**
- Crops Research Institute
- Food Research Institute
- Institute of Industrial Research
- Oil Palm Research Institute
- Plant Genetic Resources Research Institute
- Water Research Institute
- Soil Research Institute
- Forestry Research Institute of Ghana
- Savannah Agricultural Research Institute
- Institute of Scientific and Information research
  Science and Technology Research institute
INSTITUTES ORGANISATIONAL STRUCTURE

- Management Board
- Director
- 8 Heads of Division
- Research Scientists
- Supporting Staff
- Deputy Director
CSIR-BRRI VISION AND MISSION

• VISION
A centre of excellence that offers a one stop service in research, training and technology transfer in the construction and transportation sectors.

• MISSION STATEMENT
To promote the conduct of demand-driven and problem-based research, provide training and technology transfer that links effectively to the socio-economic development of Ghana particularly, the building, road and transport industry
OBJECTIVES

• To undertake research into all aspects of building and road planning, design, construction and maintenance

• To develop local construction materials for increased utilization in construction
DIVISIONS

- Construction
- Geotechnical Engineering
- Materials Development
- Structures, Design and Planning
- Traffic and Transportation
- Commercialisation & Information
- Administration
- Finance
STAFF - CATEGORIES

- SENIOR MEMBERS - 50
- SENIOR STAFF - 112
- JUNIOR STAFF - 84
- TOTAL - 246

• snr members
• snr staff
• Jnr staff

5/21/2015
# Senior Members Grade

<table>
<thead>
<tr>
<th>Research Grade</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Research Scientist</td>
<td>1</td>
</tr>
<tr>
<td>Principal Research Scientist</td>
<td>2</td>
</tr>
<tr>
<td>Senior Research Scientist</td>
<td>8</td>
</tr>
<tr>
<td>Research Scientist</td>
<td>37</td>
</tr>
<tr>
<td>Assistant Research Scientist</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>50</strong></td>
</tr>
</tbody>
</table>

![Pie chart showing distribution of research grades](chart.png)

- **Chief Research scientist**: 4%
- **Principal Research scientist**: 2%
- **Senior Research scientist**: 4%
- **Research scientist**: 16%
- **Assistant Research scientist**: 74%
<table>
<thead>
<tr>
<th>Qualification</th>
<th>No</th>
<th>Under Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>MPhil/MSc</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>MBA</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>BSc</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>HND</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

5/21/2015
# Annual Budget

<table>
<thead>
<tr>
<th>NO</th>
<th>PARTICULARS</th>
<th>AMOUNT, $</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Compensation</td>
<td>492,117.89</td>
</tr>
<tr>
<td>2</td>
<td>Goods &amp; Services</td>
<td>400,000.00</td>
</tr>
<tr>
<td>3</td>
<td>Research</td>
<td>550,000.00</td>
</tr>
<tr>
<td>4</td>
<td>Assets</td>
<td>300,000.00</td>
</tr>
<tr>
<td></td>
<td><strong>Grand Total, $</strong></td>
<td><strong>1,742,117.89</strong></td>
</tr>
</tbody>
</table>

5/21/2015
Research programmes

• Development of supplementary cementitious materials:
  • Dolomitic limestone, Granite dust, Steel slag cement
• Development of mosquito repellant paint
• Development of construction cost indices
• Construction Artisan productivity studies
• The prevalence of cell phone use while driving
• Assessment of pedestrian safety
• Development of geotechnical and geophysical database management system of Ghana
• Effects of design and construction defects on the maintenance of public housing
• Study of urban waste management systems
## Research Publications

<table>
<thead>
<tr>
<th>Type</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refereed Journal</td>
<td>20</td>
</tr>
<tr>
<td>Edited Conference Papers</td>
<td>15</td>
</tr>
<tr>
<td>Edited Research Paper</td>
<td>6</td>
</tr>
<tr>
<td>Monograph/Manual</td>
<td>7</td>
</tr>
<tr>
<td>Technical Reports</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>68</strong></td>
</tr>
</tbody>
</table>
COMMERCIALISATION ACTIVITIES

- CONSULTANCY SERVICES - 62%
- PRODUCTS SALES - 20%
- TRAINING - 10%
- CONTRACT RESEARCH - 8%
Commercialisation

• Production of Pozzolana and pozzolana cement
• Production of salt resistant burnt bricks
Ultra Modern Digital Soil Laboratory
New programmes

• Establishing a bitumen and Asphalt Technology Centre worth $1.5m
The main objective of the project is to set up a **Bitumen and Asphalt Technology Centre (BATC)** that will provide services in testing, performance review and analysis, utilisation, standard-setting of bitumen and asphalt for stakeholders in the road construction.
TRAINING

• National Artisan Training Centre set up to train
  • Contractors
  • Engineers
  • Foremen
  • Artisans
  • Carpenters
  • Steel benders
International cooperation

• DFID - The Africa Community Access Partnership (AFCAP)
• Johns Hopkins/Bloomberg - Road safety

• DANIDA - Road safety
• TRL - Transport research

• SBAS - Satellite imagery in Africa

• Habitat for Humanity – Training in construction
Relationship with International Organisations

- WAITRO
- WORLD BANK
- DANIDA
- EU
- COMSATS
Future plans

- Set up International Research Centre in Material Science
  - Construction materials
  - Plastics
  - paints
  - Green technologies
- Potential partners are CIF, CSIR-South Africa and University of Manchester
Thank you